

Fishery Management Report No. 13-50

Area Management Report for the Recreational Fisheries of Northern Cook Inlet, 2011–2012.

by

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and

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December 2013

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



Symbols and Abbreviations

The following symbols and abbreviations, and others approved for the Système International d'Unités (SI), are used without definition in the following reports by the Divisions of Sport Fish and of Commercial Fisheries: Fishery Manuscripts, Fishery Data Series Reports, Fishery Management Reports, and Special Publications. All others, including deviations from definitions listed below, are noted in the text at first mention, as well as in the titles or footnotes of tables, and in figure or figure captions.

| | | | | | |
|---------------------------------------|--------------------|--------------------------|-------------------|----------------------------------|-------------------------|
| Weights and measures (metric) | | General | | Mathematics, statistics | |
| centimeter | cm | Alaska Administrative | | <i>all standard mathematical</i> | |
| deciliter | dL | Code | AAC | <i>signs, symbols and</i> | |
| gram | g | all commonly accepted | | <i>abbreviations</i> | |
| hectare | ha | abbreviations | e.g., Mr., Mrs., | alternate hypothesis | H _A |
| kilogram | kg | | AM, PM, etc. | base of natural logarithm | <i>e</i> |
| kilometer | km | all commonly accepted | | catch per unit effort | CPUE |
| liter | L | professional titles | e.g., Dr., Ph.D., | coefficient of variation | CV |
| meter | m | | R.N., etc. | common test statistics | (F, t, χ^2 , etc.) |
| milliliter | mL | at | @ | confidence interval | CI |
| millimeter | mm | compass directions: | | correlation coefficient | |
| | | east | E | (multiple) | R |
| | | north | N | correlation coefficient | |
| Weights and measures (English) | | south | S | (simple) | r |
| cubic feet per second | ft ³ /s | west | W | covariance | cov |
| foot | ft | copyright | © | degree (angular) | ° |
| gallon | gal | corporate suffixes: | | degrees of freedom | df |
| inch | in | Company | Co. | expected value | <i>E</i> |
| mile | mi | Corporation | Corp. | greater than | > |
| nautical mile | nmi | Incorporated | Inc. | greater than or equal to | ≥ |
| ounce | oz | Limited | Ltd. | harvest per unit effort | HPUE |
| pound | lb | District of Columbia | D.C. | less than | < |
| quart | qt | et alii (and others) | et al. | less than or equal to | ≤ |
| yard | yd | et cetera (and so forth) | etc. | logarithm (natural) | ln |
| | | exempli gratia | | logarithm (base 10) | log |
| Time and temperature | | (for example) | e.g. | logarithm (specify base) | log ₂ , etc. |
| day | d | Federal Information | | minute (angular) | ' |
| degrees Celsius | °C | Code | FIC | not significant | NS |
| degrees Fahrenheit | °F | id est (that is) | i.e. | null hypothesis | H ₀ |
| degrees kelvin | K | latitude or longitude | lat or long | percent | % |
| hour | h | monetary symbols | | probability | P |
| minute | min | (U.S.) | \$, ¢ | probability of a type I error | |
| second | s | months (tables and | | (rejection of the null | |
| | | figures): first three | | hypothesis when true) | α |
| Physics and chemistry | | letters | Jan, ..., Dec | probability of a type II error | |
| all atomic symbols | | registered trademark | ® | (acceptance of the null | |
| alternating current | AC | trademark | ™ | hypothesis when false) | β |
| ampere | A | United States | | second (angular) | " |
| calorie | cal | (adjective) | U.S. | standard deviation | SD |
| direct current | DC | United States of | | standard error | SE |
| hertz | Hz | America (noun) | USA | variance | |
| horsepower | hp | U.S.C. | United States | population | Var |
| hydrogen ion activity | pH | | Code | sample | var |
| (negative log of) | | U.S. state | | | |
| parts per million | ppm | | use two-letter | | |
| parts per thousand | ppt, | | abbreviations | | |
| | ‰ | | (e.g., AK, WA) | | |
| volts | V | | | | |
| watts | W | | | | |

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FISHERIES OF NORTHERN COOK INLET, 2011–2012.**

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ABSTRACT

This report provides a detailed summary of the sport fisheries occurring within the Northern Cook Inlet Management Area and their performance for the years 2011–2012. Included is an organizational and geographic description of the management area, a description of programs related to management of the area, a historical overview of each fishery, how each fishery is managed, and the sport fishery performance and escapement for the 2011–2012 management years.

Key words: Northern Cook Inlet Management Area, Knik Arm Management Unit, Eastside Susitna Management Unit, Westside Susitna Management Unit, West Cook Inlet Management Unit, sport fisheries overview, stocked lakes, Chinook salmon, *Oncorhynchus tshawytscha*, coho salmon, *Oncorhynchus kisutch*, sockeye salmon, *Oncorhynchus nerka*, rainbow trout, *Oncorhynchus mykiss*, northern pike, *Esox lucius*, personal use fisheries, dip net, subsistence, educational fisheries, Alaska Board of Fisheries.

INTRODUCTION

This report provides a detailed summary of sport fisheries within the Northern Cook Inlet Management Area (NCIMA). Included is a description of the management area and programs related to management of area fisheries. Fisheries are described and organized by species and management unit. A historical overview and description of each fishery, historical harvest and escapement, management strategies and objectives, and sport fishery performance and escapement for the years 2011–2012 are discussed.

MANAGEMENT AREA DESCRIPTION

The Northern Cook Inlet (NCI) sport fish management area (Figure 1) includes all freshwater drainages and adjacent marine waters of Upper Cook Inlet (UCI) between the southern tip of Chisik Island and the Eklutna River, excluding the upper Susitna River drainage upstream of the Oshetna River confluence. The management area encompasses approximately 30,000 square miles and is dominated by the Susitna River drainage, which originates in glaciers of the Alaska and Talkeetna mountain ranges and flows south about 200 miles to Cook Inlet near Anchorage. Most sport fisheries in the NCIMA are easily accessible by road or jet boat, with the exception of remote West Cook Inlet (WCI) waters, which are accessible only by boat or aircraft.

NCIMA is divided into four major units (Figure 1) for the purposes of management and harvest reporting:

1. Knik Arm Management Unit (KAMU): includes all waters bounded on the north by Willow Creek (not including Willow Creek); on the west by a line one-half mile east of the Susitna River; on the south by Cook Inlet, Knik Arm, and the Eklutna River (not including the Eklutna River); and on the east by the Upper Susitna River drainage upstream of its confluence with the Oshetna River. All adjacent marine waters of Cook Inlet are included.
2. Eastside Susitna Management Unit (ESMU): includes all drainages of the upper Susitna River upstream of the Chulitna River to and including the Oshetna River drainage, all eastside drainages of the Chulitna River, and all eastside drainages of the Susitna River downstream of its confluence with the Chulitna River to and including Willow Creek to the south. This management unit has no marine waters.

3. Westside Susitna Management Unit (WSMU): includes all westside drainages of the Chulitna River, all westside drainages of the Susitna River downstream of its confluence with the Chulitna River, and the eastside drainages of the Susitna River within one-half mile of the Susitna River downstream of Willow Creek. This management unit has no marine waters.
4. West Cook Inlet Management Unit (WCIMU): includes all freshwater drainages entering Cook Inlet between the Susitna River and the latitude of the southern tip of Chisik Island, and all adjacent marine waters of Cook Inlet.

In terms of political geography, the major portion of this management area is very similar to the boundaries of the Matanuska-Susitna Borough; the West Cook Inlet Unit extends into the Kenai Peninsula Borough. The State of Alaska is the principal land manager in the NCIMA. Other significant land managers include the Matanuska-Susitna (Mat-Su) Borough, Kenai Peninsula Borough, various Native corporations and villages, and the federal government.

FISHERY DEVELOPMENT AND REGULATION

The waters of the NCIMA fall within four sport fishing regulatory areas: the Knik Arm, Susitna River, West Cook Inlet, and the Cook Inlet–Resurrection Bay Salt Water regulatory area. Regulations governing the sport fisheries of the Knik Arm, Susitna River, West Cook Inlet, and the Cook Inlet–Resurrection Bay Salt Water regulatory areas are established in Chapters 60–62 and 58, respectively, of Title 5 of the Alaska Administrative Code. Regulations pertaining to other Cook Inlet fisheries including subsistence (Chapter 01), personal use (Chapter 77), educational permits (Chapter 93); statewide provisions (Chapter 75) and commercial fisheries (Chapter 21) are also contained in Title 5 of the Alaska Administrative Code.

The process of developing fishing regulations appropriate for fisheries in the NCIMA occurs within the established Alaska Board of Fisheries (BOF) process. Public input concerning regulation changes and allocation issues is provided for in this process through various means including submission of proposals, direct testimony to the BOF, and participation in local fish and game advisory committees. Advisory committees have been established throughout Alaska to assist the BOF and the Alaska Board of Game (BOG) in assessing fisheries and wildlife issues and proposed regulations. Active committees meet several times each year. Division of Sport Fish (SF) staff and other Alaska Department of Fish and Game (ADF&G) divisions are often invited to attend the committee meetings. In this way, advisory committee meetings allow for direct public interaction with ADF&G staff involved with resource issues of local concern. Within the NCIMA there are four ADF&G Advisory Committees: Denali, Matanuska, Susitna, Tyonek, and Mt. Yenlo (Appendix A1). ADF&G staff also interact frequently with the Anchorage Advisory Committee, whose constituents and concerns affect the NCIMA. Under the current operating schedule, BOF meets on a 3-year cycle. Proposals regarding finfish species within the NCIMA were addressed most recently in February 2011. The next regularly-scheduled BOF meeting to address NCI issues is scheduled for 2014. Appendices B1 to B4 provide summaries of BOF regulatory actions.

MANAGEMENT PLANS

Upper Cook Inlet fisheries have been the focus of intensive allocation battles for many years. These conflicts have led the BOF to establish numerous management plans and policies to guide the area's fisheries. These plans attempt to assure sustained yield of the area's fish resources, as

well as establishing allocations, management actions, and guidelines. There are presently 14 management plans or policies that the BOF has adopted that impact NCIMA fisheries (Appendix C1).

RECREATIONAL EFFORT, HARVEST, AND CATCH

Beginning in 1977, sport fishing effort in the NCIMA has been estimated using the Statewide Harvest Survey (SWHS), a mail survey (Mills 1979-1980, 1981a-b, 1982-1994, c; Howe et al. 1995, 1996, b, c; 2001 a-d; Walker et al. 2003; , b, b; Jennings et al. 2004, 2006 a-b, 2007, 2009 a-b, 2010a-b, In prep a-b, 2012). This survey estimates the number of angler-days of sport fishing effort expended by anglers fishing Alaskan waters, as well as the harvest and, beginning in 1990, catch (number harvested plus number released) of important sport species. The SWHS is designed to provide estimates of effort, harvest and catch by site but is not designed to provide estimates of effort directed towards a single species at a site. Unless noted otherwise, all estimates of effort, harvest and catch that follow are from the SWHS.

The NCIMA is composed of two complete SWHS reporting areas and a portion of a third (Jennings et al. *In prep*). These areas are as follows: 1) the Knik Arm Drainage Area reporting unit (Area K), 2) the West Cook Inlet reporting unit (Area N), and 3) the Susitna River Drainage reporting unit (Area M). The West Cook Inlet Area presently includes fresh and marine waters between the southern tip of Chisik Island and Cape Douglas, an area outside of the NCIMA. The Susitna River area includes several rivers and many lakes north of the Oshetna River boundary of the NCIMA. Area M fisheries outside of the NCIMA are not included in this report.

Effort

From 1977 through 2011, an average of 289,869 angler-days were expended by anglers fishing NCIMA waters (Table 1). Historically, the effort expended by anglers fishing NCIMA waters has represented an average of 14% of the total statewide and 19% of the Southcentral Region¹ (Region II) angling effort. Angler-effort peaked at 403,805 angler-days in 1992 (Figure 2). From 1995 through 1998, and again from 2009 to 2012, angler-effort fell abruptly, mirroring years when major Chinook salmon *Oncorhynchus tshawytscha* fisheries were either closed or severely restricted. Total effort for NCIMA averaged 246,242 angler-days from 2007 to 2011 (Table 1). The Kenai Peninsula sport fish management area is currently the only management area in Alaska that receives greater use by recreational anglers (Jennings et al. 2011).

During 2012, anglers spent an estimated 160,131 angler-days fishing NCIMA waters, the lowest estimate to date. Effort in 2012 represented 8% and 13% of the total statewide and Southcentral Region angling effort, respectively (Table 1).

About 40% of the total effort from the NCIMA has historically occurred in the Knik Arm Management Unit (Table 1). From 1977 to 2011, these waters supported an average of 116,514 angler-days of fishing effort. Nearly all of the effort over this period was expended in fresh water (Table 2). The Little Susitna River is the most heavily fished stream in the KAMU, averaging 33,462 angler-days of effort for the period 1977–2011 (Figure 3). Effort on Jim Creek (Knik River), where a coho salmon *O. kisutch* fishery takes place, supported an average of more than 20,000 angler days from 2007 to 2011 (Table 2). Jim Creek angler-days in 2012 were 7,474. A

¹ ADF&G, Sport Fish Division, Southcentral Region (i.e., Region II) includes the following management areas: Anchorage Area, Bristol Bay, Kodiak/Aleutians, Lower Cook Inlet (Kenai), Northern Cook Inlet (Mat-Su), Prince William Sound Area, Seward North Gulf Coast, and Upper Kenai Peninsula.

terminal Chinook salmon fishery at the Eklutna Tailrace has also contributed to an increase in effort in the KAMU. During 2011, the KAMU represented 37% of the effort in the NCIMA (Table 1). Other major fisheries occur in the many stocked lakes in the basin (notably in Finger Lake and the Kepler Lake complex) and at various road-accessible streams including the Big Lake drainage and Cottonwood and Wasilla creeks (Figure 3). A limited saltwater (i.e., marine) fishery also occurs off the mouth of Fish Creek in Knik Arm (Figure 3).

Anglers fishing the Eastside Susitna Management Unit from 1977 through 2011 expended an average of 93,775 angler-days (Table 1), representing an average of 32% of the total sport effort from all NCIMA waters. A total of 50,521 angler-days were spent in this area during 2012, an historic low (Table 3). Major fisheries occur in Willow Creek, Montana Creek, Sheep Creek, Little Willow Creek, and the Talkeetna River (Figure 4).

Anglers fishing the Westside Susitna Management Unit from 1977 through 2011 expended an average of 67,387 angler-days (Table 1). This expenditure of effort has represented an average of 23% of the total effort from all NCIMA waters during this time period. A total of 40,255 angler-days occurred during 2012, the lowest on record since 1978 (Table 4). Alexander Creek, a major Chinook salmon fishery, has been closed to all Chinook salmon fishing as of 2008. Other major fisheries occur in Yentna River tributaries including Lake Creek (Figure 5). Other moderate level fisheries occur in numerous remote lakes in the area.

From 1977 through 2011, anglers fishing West Cook Inlet Management Unit waters expended an average effort of 12,213 angler-days (Table 1). This expenditure of effort represents an average of 4% of the total effort from all NCIMA waters for the same period. A record total of 20,459 angler-days occurred during 2005 (Table 5), the result of increased fishing effort at Big River Lakes. WCIMU effort in 2012 of 10,682 angler-days was below the 2002-2011 average of 16,330 angler-days and below the 2007-2011 average of 15,195 angler-days. The sockeye salmon *O. nerka* fishery at Big River Lakes (Big River drainage, including Wolverine Creek) has developed during the last decade into the largest fishery in WCIMU; other major fisheries include the Kustatan, Chuitna, and Theodore rivers (Figure 6).

Harvest

From 1977 through 2011, an average of 195,553 fish were caught and kept (i.e., harvested) by anglers fishing NCIMA waters (Table 6). In 2012, a historic low of 77,328 fish were harvested in NCIMA (Figure 7); 32% of the harvest was from the KAMU and 23% from ESMU (Table 6). Coho salmon, rainbow trout *O. mykiss*, and Chinook salmon accounted for 32%, 17%, and 12% of the average harvest from 1977 through 2011 (Table 7). In 2012, Chinook salmon harvest was the lowest on recorded at 3,020 (Table 7).

On average, fish from the Knik Arm Management Unit accounted for 43% of fish caught and kept within the NCIMA during 1977–2011 (Table 6). Coho salmon and rainbow trout dominated the harvest (Table 8). The Eastside Susitna and Westside Susitna management units accounted for 27% and 24% of the average NCIMA harvest during this time period, respectively (Table 6), with coho salmon, Chinook salmon, pink salmon *O. gorbuscha*, rainbow trout, and Arctic grayling *Thymallus arcticus* dominating harvests (Tables 9 and 10). The West Cook Inlet Unit accounted for 6% of the NCIMA harvest (Table 6), with coho, sockeye, and Chinook salmon accounting for the majority of the WCI harvest (Table 11 and Figure 8).

Catch-and-Release

Estimates of the number of fish caught and released by anglers fishing NCIMA waters became available for the first time during 1990 (Mills 1991). From 2001 through 2012, the average percent released was approximately 73% of the total catch (Table 12).

The proportion and type of fish released by anglers varies within and among management units (Tables 13 and 14). Pink salmon, chum salmon *O. keta*, Arctic grayling, and rainbow trout were the most frequently released fish species during 2001–2012 (Table 12). In all units during 2001–2012, the number of fish caught and released was greatest in ESMU (Figure 9).

SPORT FISH GUIDE LICENSING AND LOGBOOK PROGRAM

Sport fishing guide registration and licensing has developed over the years in response to a lack of information regarding the industry and its impact on fishery resources. The program was designed to provide a comprehensive system to better define this diverse industry. Sport fish guide registration has been required since 1995 throughout the state. In 1998, the Alaska Board of Fisheries (BOF) adopted statewide registration regulations and definitions. Licenses with associated fees were not part of the registration process at that time. Division of Sport Fish has operated the Sport Fish Guide Licensing and Logbook program since 1998 to register sport fishing guides and sport fishing guide businesses. In 2004, the Alaska Legislature adopted House Bill 452 (HB 452). The Bill established licensing requirements for sport fishing guide business owners and sport fishing guides on a statewide basis. This bill was created to establish minimum professional standards that both freshwater and saltwater sport fish guides and business owners must follow before a license can be obtained. The standards were established to protect consumers and to promote the viability and legitimacy of a professional sport fish guide industry. Businesses providing sport fish guided services were now required to obtain a State of Alaska Occupational Business License and hold liability insurance with a minimum of \$300,000 coverage for all incidents in a year (AS 16.40.260). Licensed sport fishing guides were required (1) to be citizens of the United States, Canada, or Mexico, (2) hold a current first aid card, (3) have a current year Alaska sport fishing license, and (4) have a valid U.S. Coast Guard operator's license if they were to operate a motorized vessel in navigable waters. License application forms and the information collected in logbooks on fishing participation, effort, and harvest have remained consistent in design since 2006 (Sigurdsson and Powers 2009-2013). Logbook information is used to provide management biologists with comprehensive and credible data on guided sport fishing activities. The data can be used as an index to track effort and harvest trends, changes in effort across management areas, and to help inform the decisions of regulatory agencies such as the BOF.

In the NCIMA, guiding effort is similar between Susitna River tributaries and those of WCI (Table 15). However, WCI has greater concentrations of guides on fewer systems than the Susitna River. Most of the guided sport fishing effort in WCI is expended on Big River Lakes and the Kustatan and Chuitna rivers. Clients fish an average of about 3,500 days, fishing for mostly sockeye and coho salmon under the direction of about 40 guides at Big River Lakes (Figure 10). On the Susitna drainage, most of the guided effort occurs at Lake Creek, where an average of 60 guides fish 3,700 clients per year for mostly Chinook and coho salmon. Other higher use guide areas in WCI include the Chuitna and Kustatan rivers. On the Susitna drainage, the Deshka, Talachulitna, and Talkeetna rivers also sustain relatively high use by guides. The

Little Susitna River supports an average of 16 guides (Figure 10) who fish about 1,500 clients per year, nearly exclusively for Chinook and coho salmon (Figure 11).

The largest guided harvest for Chinook salmon occurs at Lake Creek where an average of 564 Chinook salmon are harvested annually. Other major guided Chinook salmon fisheries occur on the Deshka, Talachulitna, Talkeetna, and Little Susitna rivers (Figure 12). The proportion of Chinook salmon caught and released varies considerably between these systems. Guided anglers fishing the Talachulitna River released on average 75% of the Chinook salmon caught, but only 11% of Chinook salmon caught on the Little Susitna River were released. About 50–55% of Chinook salmon were released on the other major systems. Most guided coho salmon harvest occurs at Big River Lakes and the Kustatan River of WCI (Figure 13). Average coho salmon harvest was 5,181 fish at Big River Lakes and 2,942 fish for the Kustatan River. Less than 25% were released at these two sites. The largest guided harvest of coho salmon within the Susitna and Knik Arm area was at Lake Creek (average 1,654) and the Little Susitna River (average 1,012). As with Chinook salmon, catch-and-release fishing was greatest on the Talachulitna River (75%). The smallest percentage occurred on the Little Susitna River (14%). A listing of guides operating within the NCIMA can be found in Appendix D1.

OTHER USER GROUPS

Salmon returning to the NCIMA are harvested by various set and drift gillnet fisheries in Upper Cook Inlet (UCI) commercial salmon fishing districts (Appendix E1). In nearly all cases, harvests in the commercial fisheries are much larger than in NCIMA sport fisheries (Figure 14). The average commercial harvest from 1977 through 2011 was approximately 4.7 million salmon by the various UCI commercial fisheries, whereas during this same period, an average of approximately 112,000 anadromous salmon were harvested annually by sport fish anglers (Figure 14 and Appendix E2). Chinook salmon are the exception; since 1988 the yearly sport harvest of Chinook salmon has exceeded the commercial harvest in all years except 1995 and 2011 (Shields and Dupuis 2013, Table 7; Appendix E2).

It is generally assumed that not all commercial fisheries in Upper Cook Inlet intercept the same proportion of NCIMA salmon stocks. For purposes of management, it has generally been assumed that NCIMA salmon stocks are to a larger extent intercepted in the driftnet and Western Subdistrict setnet fisheries of the Central District and in the setnet fishery of the Northern District than in other commercial fishing districts. Although quantifiable estimates of contribution to these commercial fisheries by specific stocks are not available for many of the species, a consistently high proportion of the harvests in the Northern District setnet fisheries is assumed to be composed of NCIMA stocks. Catch sampling of Chinook salmon caught in the Northern District setnet fishery from 1998–2002 revealed an average combined contribution of 4% Deception and Ship Creek stocks (Whitmore and Sweet 1999, Rutz and Sweet 2000, Sweet and Rutz 2001, Sweet, Ivey, and Rutz. 2003). However, it is presently unknown how this contribution relates to the overall contribution of specific NCIMA wild stocks to the Northern District setnet fishery. This question could be advanced through genetic stock identification of Chinook salmon within marine sport, commercial, and subsistence fisheries. Toward this effort, a genetic baseline is being developed that includes determining the extent of genetic separation or discrimination between stocks.

The identification of discrete stocks through genetic sampling of commercially caught sockeye salmon has allowed ADF&G limited insight into the compositions of these mixed stock fisheries

by area and time. Seeb et al. (2000) estimated that Yentna/Susitna River sockeye salmon comprised an average of 16% (range 3–35%) of the Central District drift harvests from 1995–1997, while Barclay et al. (2010a) estimated an average of 7% contribution (range 0–15%) from 2005–2007. In 2009, the proportion of Yentna/Susitna (range 1–6%) and JCL (Judd/Chelatna/Larson lakes) (range 1–9%) increased after the June 22–July 2 period. Their combined contribution in the four periods between July 6 and August 6, ranged between 8% and 13% (Barclay et al. 2011). It should be noted that the contributions of various stocks harvested in the drift fishery may be the result of run size, fishery restrictions/liberalizations, and run timing on a given year (Barclay et al. 2010a).

Sockeye bound for Yentna/Susitna were harvested in increasing proportions in subsections of the eastside setnet fishery farthest from the Kenai and Kasilof river mouths. Sampling in 2009 indicated Fish Creek sockeye primarily migrate up the east side of the Northern District, while sockeye bound for the Susitna drainage migrate up the west side (Barclay et al. 2011). Genetic sampling of commercial harvests continues, as well as sampling along a northern Offshore Testnet Fishery (OTF) line, crossing the inlet near the north end of Kalgin Island, which began in 2012. Development of a genetic baseline for coho stocks within Cook Inlet is currently underway.

Fish stocks of NCIMA are also harvested in the Tyonek subsistence fishery, Fish Creek personal use dip net fishery, Upper Yentna River subsistence fish wheel fishery, and by various educational fisheries through permits issued to the villages of Eklutna and Tyonek, the Knik Tribal council, and the Big Lake Cultural Outreach program. The harvest by these fisheries on wild stocks is relatively small when compared to recreational and commercial harvests.

ECONOMIC VALUE OF SPORT FISHING

Southwick Associates and the department estimated the economic value of sport fishing across the state for 2007. Expenditures in the Southcentral region was estimated to be \$988.5 million (Table 16). Spending incorporates money spent on goods and services, such as trips, packages, equipment, and real estate and assumes all purchased equipment and real estate to be exclusively used for sport fishing. Spending within Southcentral generated \$386.5 million in income and created 11,535 jobs (Table 16). Colt and Schwoerer (2009), used data from Southwick Assoc. et al. (2008) to estimate the economic value of sport fishing within the Matanuska–Susitna (Mat Su) Borough. Mat Su values for spending and generated income and jobs were based on 16.5% of the values for Southcentral². Total spending within the Mat Su borough was an estimated \$162.8 million (Table 16). Residents spent \$92.4 million, while non residents spent \$70.4 million on fishing related expenses. Spending here can be considered high-case because expenses such as equipment and real estate are assumed to be entirely purchased for fishing (e.g. a fishing cooler or recreational cabin could be used for other purposes besides sport fishing, even if the original intent was for fishing). Spending generated \$28.8 million in income for residents and \$34.9 million for nonresidents, creating 852 resident and 1,048 nonresident jobs (Table 16).

RELATED PROGRAMS

The Recreational Boating and Angler Access Programs provide new access opportunities and upgrade existing angler access in order to increase fishing opportunities in NCIMA fisheries.

² 16.5% is the fraction of 295,981 angler-days expended within the Mat Su vs. 1,796,805 angler-days within Southcentral.

Proposed, current, and completed access projects as well as a detailed stocked lakes access summary are provided in Appendix F.

The Information and Education Program (I & E) aims to educate the public on sport fish opportunities and regulations as well as biological aspects such as life histories of fish, their habitat needs, and in ecosystem/watershed awareness. Appendix G summarizes the ongoing I & E programs in NCIMA.

CHINOOK SALMON FISHERIES

Chinook salmon runs to the NCIMA are made up of many stocks, and collectively make up the largest proportion of Cook Inlet drainage stocks. The Susitna River stock is the most numerous in the management area, and the fourth numerous in Alaska, smaller only than the Yukon, Kuskokwim and Nushagak river stocks³. Although estimates of total return are unavailable for Northern Cook Inlet Chinook salmon because estimates of escapement are not available for all stocks, the collective annual return is probably from 100,000–200,000 fish (see Delaney and Vincent-Lang *Unpublished*).

Total harvests of NCI Chinook salmon for all users varied from about 11,200 to 70,000 from 1893–1940 (Table 17), averaging about 38,500 fish. This harvest appears to be sustainable, considering it was maintained for over a half century. Harvests increased from 1940–1951. Fish numbers averaged 84,500 annually, and peaked at 150,000 in 1951. After 1951, harvests declined precipitously until fisheries were closed in 1963 to allow stocks to rebuild (Figure 15). This history suggests that the maximum sustainable harvest range for NCI Chinook salmon is from 38,500–70,000 fish.

In 1976, the Magnuson Fishery Conservation and Management Act was passed. This act, also known as the 200-mile limit law, extended federal fishery management authority into waters within three to 200 miles of the United States coast. It phased out foreign fishing fleets and implemented fishery management in offshore waters. Its effects on Cook Inlet Chinook salmon stocks are not fully understood; however, it is likely that the act and its associated fishery management plans increased Chinook salmon returns to NCI.

A variety of users including freshwater and marine sport, commercial, subsistence, personal use, and educational have historically harvested NCIMA Chinook salmon returns, (Table 18). However, harvest strategies for NCI Chinook salmon have changed substantially since the 1890s. The fishery has slowly evolved from a mixed-stock commercial harvest to a recreationally dominated harvest that targets a multitude of discrete substocks. A detailed user history can be found in Whitmore et al. *Unpublished*⁴.

From 1975–1990, sport fisheries targeting NCI Chinook salmon runs were gradually expanded to allow harvest of increasing returns (Figure 15). The Upper Cook Inlet Salmon Management Plan (5 AAC 21.363), adopted by the BOF in 1977, guided these expansions. This plan, as it relates to NCI Chinook salmon stocks, originally stipulated that stocks normally moving through Upper

³ Delaney, K. and D. Vincent-Lang. *Unpublished*. Current status and recommendations for the future management of the Chinook salmon stocks of Northern Cook Inlet. A report to the Alaska Board of Fisheries, Anchorage, Alaska, November 1992. Alaska Department of Fish and Game, Division of Sport Fish, Anchorage. Subsequently referred to as Delaney and Vincent-Lang *Unpublished*.

⁴ Whitmore, C. D. Sweet and L. Bartlett. *Unpublished*. Area Management Report for the recreational fisheries of Northern Cook Inlet, 1992. Located at Alaska Department of Fish and Game, Division of Sport Fish, 333 Raspberry Road, Anchorage.

Cook Inlet to spawning grounds prior to July 1 are to be managed primarily for recreational uses. Therefore, sport fisheries were expanded and currently constitute the largest harvests. In 1986, the BOF adopted the Northern District King Salmon Management Plan (5 AAC 21.366) to allocate a portion of the increasing NCI Chinook salmon returns to the commercial fishery. This step-down plan allows for a harvest of up to 12,500 Chinook salmon by a commercial setnet fishery in the Northern District during June.

Under these plans, total harvest of NCI Chinook salmon continued to increase from 1986–1993, ranging from 40,300–54,300 fish and averaging 46,500 fish (Table 18). Average and peak harvest of NCIMA Chinook salmon in sport fisheries from 1986–1993 were 34,600 and 49,400 fish, respectively (Table 18). Sport harvests decreased substantially to 16,500 fish in 1995 due in part to fishery closures and restrictions (Appendix B1) placed on sport fisheries following a period of poor escapements observed in the early 1990s. As Chinook salmon stocks rebounded in the mid to late 1990s, fisheries were reopened and some restrictions were lifted. Beginning in 1997, sport harvests trended upward, peaking at 33,100 fish in 2000. From 2002–2006, harvests were stable, with an average of 27,913 fish harvested. The average total harvest of NCI Chinook salmon by all users was 32,000 fish during the same time period (Table 18).

In response to development of a recreationally dominated harvest that targeted a multitude of discrete substocks, biological escapement goals (BEGs) were established in 1993 for 18 NCIMA Chinook salmon spawning streams based on long-term escapement survey data. Escapement goals are intended to ensure the long-term viability of NCIMA Chinook salmon stocks. The 1993 BEGs were replaced with sustainable escapement goals (SEGs) as new assessment methods were developed.⁵ Escapement goals were revised during the February 2002 BOF meeting, and again at the 2005 BOF meeting (Hasbrouck and Edmundson 2007) based on the *Policy for the Management of Sustainable Salmon Fisheries* and the *Policy for Statewide Salmon Escapement Goals*, both were adopted by the BOF during winter 2000–2001. Currently there are 17 SEGs for Chinook salmon in the NCIMA (Table 19).

Therefore, the primary management objective for NCIMA Chinook salmon is to achieve established escapement goals. Spawning escapement on each of the 17 streams is indexed annually using helicopter surveys or weirs. To ensure escapement goals are met, fishery managers may reduce harvest potential by reducing daily and seasonal bag limits, prohibiting bait, and reducing time and areas open to fishing. Streams that consistently fall below escapement goals may be closed to Chinook salmon fishing. On streams with weirs or programs that provide inseason sport harvest information, regulations may be liberalized by emergency order (EO) if harvestable surpluses are projected.

From the late 1970s through 1989, escapement goals were achieved. However, beginning in 1990, observed spawning escapements in streams with escapement goals decreased, and in 1992–1995 were well below escapement goals in many streams. In response, actions were taken in 1994 through EOs and BOF regulations to reduce harvest levels. As a result, the combined sport harvest of NCI Chinook salmon from 1995–1998 was reduced to approximately half of the 1993 peak harvest (Table 18). Escapement goals were again achieved beginning in 1997.

⁵ Bue, B. G., and J. J. Hasbrouck. Unpublished. Escapement goal review of salmon stocks of Upper Cook Inlet. Alaska Department of Fish and Game, Report to the Alaska Board of Fisheries, November 2001 (and February 2002), Anchorage. Subsequently referred to as Bue and Hasbrouck, *Unpublished*.

Fisheries were subsequently reopened, which contributed in part to increased harvest levels beginning in 1999.

Escapement goals were mostly met through 2006, while harvest levels were stable. Harvest remained stable through the mid-2000s despite liberalizations to major fisheries. Harvest since 2006 has trended downward, becoming variable between fisheries. Of 17 Chinook salmon goals in NCI, performance has declined from achieving 93% prior to 2007 (2002–2006) to 41% (2007–2011) despite various emergency orders restricting major sport fisheries. The downward trend in run size since 2007 is likely due to poor marine survival. The regulatory history of Chinook salmon in Northern Cook Inlet waters is presented in Appendix B1.

KNIK ARM UNIT CHINOOK SALMON FISHERIES

Fishery Description

Within the Knik Arm Management Unit (Figures 1 and 16), the Little Susitna River is the only stream open to Chinook salmon harvest, other than the Eklutna tailrace terminal fishery (see section below). The Little Susitna River supports a major Chinook salmon fishery as well as the largest coho salmon fishery in the NCIMA. Chinook salmon bound for the Little Susitna River are also harvested in marine sport and commercial fisheries, and subsistence and personal use fisheries.

Chinook salmon return to the Little Susitna River from late May through early July; the run peaks around mid-June. Spawning occurs from the Burma Road area upstream into Hatcher Pass with the majority of spawning taking place upstream of the Parks Highway Bridge. There are few Chinook salmon that use tributaries for spawning. Peak spawning typically occurs during the last week of July.

Angler access to the Little Susitna River occurs at three primary locations: 1) intertidal waters of the river are accessed by boats crossing Knik Arm from the Port of Anchorage public boat launch; 2) the road-accessible Little Susitna Public Use Facility (Burma Road Access) which includes a launch and campground; and 3) private and public launches near the Parks Highway which provide access to the upper reaches of the river. The Little Susitna Public Use Facility is the most heavily used access to the river. Powerboats can travel on the Little Susitna River from its mouth to the Parks Highway during periods of moderate to high water levels. However, during low flows, travel is restricted to smaller jet boats between river mile (RM) 28 and the Parks Highway at RM 70.

Historical Harvest and Escapement

Information about the fishery and Chinook salmon stock is available from several sources. Inseason sport harvest and fishing effort for Chinook salmon were estimated by onsite creel surveys from 1979 through 1990. Creel survey and SWHS estimates produced comparable results; therefore, the creel survey program was discontinued in 1991. Average annual harvest of Chinook salmon from the Little Susitna River was approximately 2,161 fish from 1977–2010 (Figure 17; Table 20).

Due to the semiglacial character of the Little Susitna River, aerial survey counts of Chinook salmon on spawning grounds were not counted because the waters were too turbid in 1986, 1989, 1993, 1997, and 1999, surveys have been completed in 25 years since 1983. The average Chinook salmon escapement index count through 2010 was 1,340 fish, with a peak count of

3,197 fish in 1988 (Table 21; Figure 18). During 1988, 1989, 1994 and 1995, a weir was operated at RM 32.5, with escapement counts ranging from about 2,800–7,400 fish (Table 21). Aerial counts in 1988, 1994, and 1995 were 43%, 41%, and 61% of the actual weir counts, respectively.

Stocking Program

To increase road-accessible harvest opportunities and ensure sustainability of the area's wild Chinook salmon populations, Division of Sport Fish began a program to stock Chinook salmon at the Eklutna Power Plant tailrace (Figure 19) in 1999. Ship Creek Chinook salmon are used as broodstock (Loopstra 2007). There are no wild Chinook salmon returns to the tailrace, although a few hold in the confluence area before traveling to other Knik River streams to spawn. Most fishing takes place in the one-half mile long power plant tailrace from the Old Glenn Highway to the confluence with the Knik River.

The tailrace was first stocked with Chinook salmon smolt in May 2002 (Table 22). A full complement of age classes was realized in 2006. The largest harvest to date of 1,084 fish was observed in 2007. It is speculated that loss of warm water production at the hatchery in 2006 combined with low marine survival has contributed to the small harvests observed since 2007. The newly built William Jack Hernandez Hatchery on Ship Creek began producing robust smolt of target size in 2012, ending a period of cold water only rearing (2006–2011). It is hoped that these larger and healthier smolt will contribute to stronger returns in the future.

Fishery Management and Objectives

The Chinook salmon fishing season for the Little Susitna River is from January 1 through July 13, with fishing permitted from the river's mouth upstream to the Parks Highway, a distance of about 70 miles.

Management of Chinook salmon has undergone changes (Appendix B1). In 2002, an SEG range of 900–1,800 Chinook salmon was set for the Little Susitna River (see Bue and Hasbrouck, *Unpublished*), replacing the BEG of 850 Chinook salmon that was set in 1993.

During 1988, 1989, 1994 and 1995, years in which a weir program was conducted and Chinook salmon harvest estimates were available for the Little Susitna River, inriver exploitation rates were estimated at approximately 28%, 49%, 59% and 38%, respectively. This indicated an increased rate of exploitation from 1988 to 1994 and showed that inriver exploitation can exceed 50%. The Chinook weir program ended after 1995. In 1995, in response to poor Chinook salmon returns, the BOF restricted the use of bait and limited the fishery to 6 a.m.–11 p.m. daily. From 1999–2008, the aerial index count of the escapements ranged from 1,100–2,100 fish and harvest varied from about 2,200–3,300 fish (Tables 20 and 21), indicating that the present regulatory framework is maintaining the necessary escapement to ensure a sustainable fishery over most years. Note that the index count is assumed to represent no more than half of the actual escapement.

The management objective for the Little Susitna River Chinook salmon fishery is to maximize fishing opportunity while ensuring the attainment of the SEG. The annual objective for the Eklutna tailrace stocking program is to release 150,000 Chinook smolt, resulting in a return of 4,000 adults and generating 10,000 angler-days of effort (Loopstra 2012). The only other Knik Arm Unit Chinook salmon stream indexed annually is Moose Creek, a tributary of the Matanuska River, but there is no escapement goal or associated fishery.

In the near future, NCI managers will be looking for signs of reduced returns from brood year 2011 due to a 100-year flood, which swept much of the NCIMA during the last two weeks in August 2012. Even though the recent Chinook salmon downturn is a statewide issue and likely marine derived, the flood occurring in 2006 may have contributed to the intensity of area downturns occurring from 2010–2012. Similarly, Chinook returning in 2016–2018 as age 4 – age 6 could be affected by the 2012 flood.

Sport Fishery Performance and Escapement in 2011 and 2012

The 2011 sport harvest of Chinook salmon from the Little Susitna River was 828 fish, less than half the 2006–2010 average of 2,255 fish (Table 20). The Little Susitna River harvest accounted for approximately 10% of the total Chinook salmon sport harvest from NCIMA waters during 2011 (Table 23). Low harvest was the result of closing the fishery on June 17, mid way through the season (Appendix B1). During 2011, sport fish guides and anglers reported low to moderate catch rates at the Little Susitna River. Harvest numbers reported at the Little Susitna Public Use Facility (LSPUF) fee booth indicated a below average run with catch rates similar to those observed in 2010, a year in which the escapement goal (SEG 900–1,800) was not achieved. An aerial index of 887 Chinook salmon was documented for the Little Susitna River in 2011 (Table 21), near the low end of the SEG minimum of 900 fish. Catch rates reported by anglers at the Eklutna Tailrace were low through most of the Chinook fishing season. Department staff observations of fishing at Eklutna Tailrace substantiated the angler reports. Harvest of Chinook salmon at the Eklutna Tailrace in 2011 was about 200 fish. In 2011, about 175 fish were counted during the Moose Creek survey (Table 21).

During 2012, preseason action was taken to reduce harvest up to 50% across the Susitna and Little Susitna drainages. A reduction of 50% on the Little Susitna was based on the 2012 run being similar in size as the 2010 and 2011 runs. The 2010 and 2011 inriver runs were likely similar in size; however, the SEG of 900–1,800 was missed in 2010 by a substantial margin with action taken too late in the season for meaningful savings. The SEG was narrowly missed in 2011 after the fishery was closed midway through the season to save the remaining 35–40% of the run. In 2012, harvest numbers reported at the LSPUF fee booth indicated a below average run with catch rates much lower than anticipated. Guides and anglers reported a general absence of Chinook in the lower Little Susitna and a staff survey corroborated those reports. The 2012 run appeared weaker than in 2011. The sport fishery was closed on June 15, two days earlier than in 2011, with a potential harvest reduction of about 75%, all restrictions included. An aerial index survey conducted on July 17 counted 1,154 spawners, within the SEG range (Table 21; Figure 18). Survey conditions were excellent. A weir will be operated at RM 32.5 during the 2013 season to provide timely inseason escapement information to managers. Department staff observations of fishing at the Eklutna Tailrace indicated poor catches from late-May through mid-July. In 2012, an aerial survey conducted on Moose Creek counted 163 fish, 33% of the 1983–2008 average of 485 fish (Table 21).

EASTSIDE SUSITNA MANAGEMENT UNIT CHINOOK SALMON FISHERIES

Fishery Description

The Eastside Susitna Management Unit (ESMU; Figures 1, 21 and 22) is composed of three distinct geographical areas with different regulations: 1) the eastside Susitna River tributaries between the Dëshka and Talkeetna rivers, 2) the Talkeetna River, and 3) the upper Susitna area,

which includes the Susitna River and its tributaries between Talkeetna River and Oshetna River (including the Oshetna River drainage), and all eastside tributaries of the Chulitna River (including the East Fork drainage of the Chulitna River).

Deshka to Talkeetna Area

Tributaries of the Deshka to Talkeetna area (Figures 21 and 22) are numerous and are characterized by their clear water. The majority of the fisheries in this portion of the management unit are accessible by road. There are exceptions, including Little Willow and Greys creeks and various Susitna River side sloughs that require a boat to access their most productive portions. The George Parks Highway (Alaska Route 1), which connects Anchorage and Fairbanks, parallels the Susitna River on the east. The Alaska Railroad also parallels the east side of the Susitna River to a large extent. Both transportation systems provide angler access to numerous tributaries. These streams are considered only moderate producers of Chinook salmon and are susceptible to high use. Therefore, regulations are more conservative than in any other areas with respect to time and area. Streams within this area are generally managed as a unit since independent actions taken on one stream can transfer a significant amount of effort to adjacent fisheries.

Talkeetna River

The Talkeetna River joins the Susitna River about 98 miles upstream from Cook Inlet. This glacial system contains two major and numerous minor clear water tributaries that support Chinook salmon (Figure 22). Clear Creek is the most prominent Chinook fishery within the Talkeetna River drainage. The Talkeetna Spur Road provides access to the Talkeetna River; however, a boat is required to reach virtually all Chinook salmon fisheries within the drainage. This area is primarily accessed from the Talkeetna boat launch.

Upper Susitna River Area

The upper Susitna River area (Talkeetna to Devils Canyon; Figure 20) is accessible only by boat or railroad. A public boat launch adjacent to the community of Talkeetna provides access to the area. Boat travel is relatively safe from the Talkeetna River upstream to the entrance of Devils Canyon, a distance of about 55 miles. Boat travel beyond the entrance to Devils Canyon is extremely hazardous and few boat operators venture past this location. Indian River and Portage Creek are the most prominent Chinook salmon fisheries within the Upper Susitna River Area. The entrance to Devils Canyon, beyond which salmon cannot migrate, is about 150 miles upstream from Cook Inlet.

The Chulitna River empties into the Susitna River a short distance upstream of the Talkeetna River at RM 92. Most tributaries entering the Chulitna River from the east are relatively short, high gradient streams, which receive few spawners. The exception is the East Fork, currently the only Chulitna River tributary supporting a Chinook salmon fishery (Middle Fork, West Fork mouth and lower Honolulu Creek are included in this fishery).

Stocking Program

Willow Creek was identified in 1981 as a candidate for Chinook salmon stocking in the Cook Inlet Regional Salmon Enhancement Plan (CIRPT 1981). A Chinook salmon smolt stocking program was initiated in 1985 and the program has continued annually with the exception of 1987. The goals of this program are to: 1) maintain the present quality and quantity of natural

Chinook salmon production, 2) produce through stocking an additional 6,000 returning Chinook salmon, of which 4,000 would be available for harvest at Willow Creek on an annual basis, and 3) provide 10,000–15,000 angler-days of Chinook salmon fishing opportunity during the Chinook salmon season (Sweet 1999). Until the new hatchery is at full production, goals for Willow Creek are currently: 1) maintain the present quality and quantity of natural Chinook salmon production, 2) produce through stocking an additional 4,000 returning Chinook salmon, of which 1,750 Chinook spawn naturally, as assessed by aerial survey, 3) provide 10,000 angler-days of annual weekend and weekday fishing opportunity directed at stocked Chinook salmon in Willow Creek (Loopstra 2012).

A project to estimate the relative contribution of stocked Chinook salmon to the sport harvest was conducted at the mouth of Willow Creek annually from 1988–2005. The program was ended when it was determined that harvests of stocked fish were well documented and relatively stable, averaging about 40% of the total harvest and ranging from 26% to 51% for 1991–2005, years in which a full complement of stocked fish returned (Sweet 1999; Whitmore and Sweet 1998, 1999; Rutz and Sweet 2000; Sweet and Rutz 2001; Sweet et al. 2003, 2004). The contribution of hatchery fish to the escapement in Willow Creek and Deception Creek continues to be monitored by staff annually. An estimated 2% of hatchery fish stray into the Willow Creek escapement annually (Table 24). It is speculated that loss of warm water production at the hatchery in 2006 combined with low marine survival has contributed to the small harvests and below average escapements observed since 2007. The BOF declared Willow Creek wild Chinook a stock of concern at the 2010 meeting. Since this time, the fishery has essentially not been able to support harvest, even on hatchery fish, due mainly to an inability to achieve egg-take goals in 2011 and 2012.

The newly built William Jack Hernandez Hatchery on Ship Creek began producing robust smolt of target size in 2012, ending a period of cold water only rearing (2006–2011). It is hoped that these larger and healthier smolt will lead to stronger returns and achievement of egg-take goals in the future. Smolt to adult survivals through 1996 of 0.6–1.5% were below the original target of 3% (Sweet 1999) for Willow Creek. This survival likely represents a period of better marine survival than is currently being experienced. In consideration of survivals less than 1%, it may be necessary to double or triple the number of smolt released into this system in order to approach the current program goals.

Historical Harvest and Escapement

Information about the fishery and Chinook salmon stock is available from the SWHS, creel surveys, escapement surveys, and tagging studies. In the Deshka to Talkeetna area, most of the Chinook salmon harvest occurs the third and fourth weekends in June because few Chinook salmon arrive at the mouths of eastside Susitna tributaries prior to mid-June. At the Talkeetna River, the fishery peaks the first week in July. The Upper Susitna River fishery has run timing similar to the Talkeetna River.

Tagging studies have shown that Chinook salmon substocks from Willow Creek, the Talkeetna River, Sheep Creek and Montana Creek are subject to harvest at stream mouths other than their natal stream (Peltz and Sweet 1992). For example, Chinook stocks from the upper portions of the drainage such as Prairie Creek are harvested at stream mouths along their migration corridor. The magnitude of nonnatal stream harvest has not been determined.

From 1979–1995, harvest ranged from about 1,300 Chinook salmon in 1979 to 22,700 in 1993 (Table 23). From 2001–2010, Eastside Susitna Management Unit (ESMU) fisheries averaged about 33% of the total NCIMA Chinook salmon harvest (Table 23). Harvest steadily declined during this period, from about 13,500 Chinook salmon in 2001 to about 2,600 fish in 2010. Total eastside harvest has been less than Westside Susitna harvest since 1999. Historically, approximately 500–4,000 hatchery fish taken in the Willow Creek sport fishery have contributed to the annual eastside harvest. Due to disease issues in 2006 and decreased smolt size since 2007—the result of cold water rearing at the Fort Richardson Hatchery—the number and/or quality of fish stocked has diminished over recent years (Table 25). Although the ramifications of reduced stocking are unmeasured, it is speculated that fewer hatchery adults have contributed to this fishery beginning in 2008.

Willow Creek, the Talkeetna River, Montana Creek, and Sheep Creek traditionally produce the largest harvest of Chinook salmon in the ESMU. The 2001–2005 average annual harvest for these fisheries was 3,474; 2,238; 1,663; and 1,085 fish, respectively (Table 26). By comparison, the 2006–2010 average annual harvest for the same fisheries was 1,019; 1,738; 778; and 525 fish, respectively. Low returns to these rivers and emergency restrictions contributed to the decrease in harvest levels. All Parks Highway streams within Unit 2 of the Susitna River were restricted by EO during 2009 and 2010 (Appendix H).

Creel surveys were employed from 1979–1989 to monitor the effort for and harvest of Chinook salmon and to collect biological samples at Montana Creek and the Talkeetna River. In 1991, 1992 and 1995, creel surveys were conducted for the Talkeetna River. Biological samples were collected from the Talkeetna River during the 1993, 1994 and 1996 seasons. Creel surveys were intermittently conducted at Sheep, Goose, Caswell, Little Willow, Sunshine, and Birch creeks and within the upper Susitna River area. Findings from these surveys are documented in Department of Fish and Game annual reports (Watsjold 1980, 1981; Bentz 1982, 1983; Hepler and Bentz 1984-1987; Hepler et al. 1988, 1989; Sweet and Webster 1990; Sweet et al. 1991; Peltz and Sweet 1992, 1993; Sweet and Peltz 1994; Whitmore et al. 1995, 1996; Whitmore and Sweet 1997).

Aerial survey escapement counts suggest that ESMU substocks comprise from 40% to 60% of the Susitna River Chinook salmon escapement (Table 27). Prairie Creek, a headwater tributary of the Talkeetna River, has historically received the largest escapements with an average escapement of 3,649 Chinook salmon from 2006–2010 (Table 28). Escapements among eastside streams have trended downward since about 2005, but more drastically since 2007. Five of eight SEGs were met in 2009. Despite management action to close the last weekend of fishing, escapement goals were not achieved on Willow, Sheep, and Goose creeks. A large beaver dam was noted as blocking fish passage on Goose Creek in which only 65 Chinook salmon were counted, the lowest on record. In 2010, seven of eight streams failed to achieve escapement minimums amidst severe action to close the last two weekends of fishing. Little Willow Creek narrowly achieved its escapement goal with 468 fish (SEG 450–1,800). Willow and Goose creeks each missed their respective goals for the fourth consecutive year. During the 2010 BOF meeting, Willow and Goose creeks were designated as stocks of yield concern. The board closed Goose Creek and placed additional restrictions on the Willow Creek sport fishery (Appendix B1).

Fishery Management and Objectives

Management of Chinook salmon in the Eastside Susitna Unit has undergone numerous changes since the 1980s, so has management of Chinook salmon in the entire NCIMA (Appendix B1).

In the Deshka to Talkeetna area (Unit 2 or Parks Highway streams), waters within one-quarter mile of the Susitna River are open to Chinook salmon fishing from January 1 through the third Monday in June and on Saturday, Sunday and Monday for the next three consecutive weeks. For the Willow, Little Willow, Caswell, Kashwitna, Sheep, Goose and Montana creeks (Figure 21), fishing is allowed from the Susitna River upstream to the Parks Highway. Fishing on Montana Creek extends one-half mile upstream of the Parks Highway Bridge. The weekend-only fishing strategy has been cautiously liberalized since sport fisheries reopened in 1979 after a period of closure. Initially only Willow, Caswell, and Montana creeks were open for four consecutive Saturday-Sunday weekends beginning the second Saturday in June. In 1986, Little Willow, Goose, Sunshine, Sheep, and Birch creeks were added, and in 1987 all eight eastside streams were liberalized by the addition of Monday to the fishing weekend. In 1989 the Kashwitna River was added as the ninth eastside fishery, and Willow Creek was liberalized to continuous fishing through the third Monday in June and the next two consecutive three-day (Saturday–Monday) weekends. In 1999, all eastside fisheries followed suite with the regulations in place on Willow Creek. In 2005, Parks Highway streams were opened for an additional three-day weekend (Appendix B1). Willow and Goose creeks were designated as stocks of yield concern at the 2010 BOF meeting. The board closed Goose Creek and placed additional restrictions on other streams within Unit 2 of the Susitna River in an effort to reduce harvest by 50% and thereby boost escapement levels. The last weekend of fishing, added in 2005, was removed from regulation in addition to only allowing fishing from 6 a.m. to 11 p.m. (Appendix B1).

The Talkeetna River and upper Susitna River drainages are open to Chinook salmon fishing from January 1 through July 13, from 6 a.m. to 11 p.m. Bag and possession limits are one fish per day and one in possession. Within the Talkeetna River area, Clear Creek is open upstream to RM 2. Both Larson and Prairie creeks are closed to Chinook salmon fishing. Eastside Chulitna River tributaries are closed to Chinook salmon fishing with the exception of the East Fork Chulitna and its tributaries. Harvest is allowed within a quarter mile of the confluence of the East Fork and West Fork of the Chulitna River (including the Middle Fork) and the first quarter-mile of Honolulu Creek under the weekend-only management strategy described for the Deshka to Talkeetna area. During the rest of the week, only catch-and-release fishing is allowed. The portion of the Susitna River above the Talkeetna River is designated as a trophy fishery for rainbow trout; therefore, only unbaited, single-hook artificial lures are permitted as terminal gear.

SEG ranges for nine Eastside Susitna Management Unit streams were established in 2002 (Table 19) based on historic escapement index counts (see Bue and Hasbrouck *Unpublished*). The Deception Creek SEG was removed at the 2005 BOF meeting (Hasbrouck and Edmundson 2007) because Deception Creek is managed as part of Willow Creek. The management objective for these eight streams is to achieve the escapement goal for each system. In the streams that cross the George Parks Highway, management strategies provide maximum levels of sustained Chinook salmon fishing opportunity while attaining escapement objectives.

Sport Fishery Performance and Escapement in 2011 and 2012

Board action taken in 2010 to decrease harvest in Eastside Susitna streams was insufficient to achieve desired escapement objectives in 2011. The 2011 Chinook salmon harvest from the Eastside Susitna Management Unit was 2,710 fish, approximately 66% less than the 2001–2010 average harvest of 7,840 fish (Table 23). A below average return of Chinook salmon was observed along Parks Highway streams in 2010. While harvest was likely reduced through added restrictions as intended by the board, returns to eastside streams were lower than last season. Despite the recent restrictions to these sport fisheries, all streams along the Parks Highway, with the exception of Little Willow Creek and the Chulitna River, failed to achieve escapement goals (Figure 23).

During 2012, preseason action was taken to reduce harvest up to 50% across the Susitna and Little Susitna drainages. An area-wide restriction reduced the annual limit to two Chinook over 20 inches and allowed use of only one, single hook, artificial lure. Parks Highway streams within Unit 2 of the Susitna River were further restricted to catch and release only after the second Monday in June in addition the area-wide blanket. Staff was present during the weekend outlined in regulation (June 16–18) when fish were expected to be caught in moderate numbers and observed low catch rates overall. Helicopter surveys conducted on June 25–26 over eastside streams and on Clear Creek of the Talkeetna River confirmed poor numbers of Chinook salmon holding in the lower reaches of these systems. Eastside streams, along with the rest of the Susitna Drainage, were closed to Chinook salmon fishing beginning June 25. Despite Unit 2 streams being reduced in harvest by at least 95%, escapements to several streams were of record low numbers, including Willow and Montana creeks (Table 28). In general, returns to eastside streams were lower than in 2011. The SEG on Little Willow Creek was met. Savings on the Talkeetna River likely approached 75% as a result of the closure; however, final index counts were mixed, with Clear Creek achieving its SEG with a count of 1,177, while a count of 1,185 on Prairie Creek was the lowest on record

WESTSIDE SUSITNA MANAGEMENT UNIT CHINOOK SALMON FISHERIES

Fishery Description

The Westside Susitna Management Unit (WSMU) includes all westside drainages of the Chulitna River, and all westside drainages of the Susitna River below its confluence with the Chulitna River and, primarily for management purposes, eastside drainages of the Susitna River within a half mile of the Susitna River downstream of Willow Creek. Major tributaries within this unit that support Chinook salmon fisheries include the glacially-turbid Yentna River, the largest tributary of the Susitna River, which flows into the Susitna River about 30 miles upstream from Cook Inlet; the Dëshka River, with its confluence at RM 40 of the Susitna River; and Alexander Creek (confluence at RM 10 of the Susitna River). The Dëshka River produces the largest return of Chinook salmon to the NCI area; these fish exhibit early run timing due to the relative closeness of the Dëshka to the mouth of the Susitna River. Lake Creek (64 miles from the mouth of the Susitna River at RM 34 of the Yentna River) supports the largest Chinook salmon fishery on the Yentna River.

Access to these relatively remote fisheries is primarily by boat or aircraft. Susitna Landing, located at the mouth of the Kashwitna River, and Dëshka Landing, located about four miles upstream from the Dëshka River, are the principle boat access sites on the Susitna River. A few

anglers also gain access to Westside Susitna Management Unit fisheries by traversing Cook Inlet by boat from the Port of Anchorage. The Petersville Road provides the only vehicular access to this portion of the Susitna River drainage, allowing access to the upper reaches of the Deshka River and Peters Creek.

Historical Harvest and Escapement

Information about the WSMU fisheries and Chinook salmon stock is available from the SWHS, weirs, and escapement surveys. Chinook salmon enter WSMU tributaries in May and June. Harvest at the mouth of the Deshka River peaks during mid-June, and at Lake Creek the peak harvest usually takes place during the third week in June.

The WSMU supported the largest harvests of Chinook salmon within the NCIMA from 1979–1991 (Table 23) and again after 2000; ESMU dominated harvests 1992–1999. Within the unit, the Deshka River, Alexander Creek and Lake Creek historically supported the largest Chinook salmon fisheries (Table 29) until Alexander Creek was closed to Chinook salmon fishing in 2008. More recently, the Deshka River, Lake Creek, and the Talachulitna River have generated the largest harvests in this unit—about 80% from 2006–2010. The Deshka River has historically provided the largest Chinook salmon harvest within the entire NCIMA (Table 29) except during the mid-1990s when the fishery was closed due to low observed escapements.

Harvest by major WSMU fisheries increased substantially from 1979–1993 (Table 29), probably a result of improved access (as described in Whitmore et al. 1994) and population growth. However, liberalized regulations from 1986–1992 also contributed to increased harvests.

Escapements have been monitored annually in six tributaries using aerial surveys (Table 30). A weir has been used to census escapements to the Deshka River since 1995 (Table 30). From 1991–1996, Chinook salmon spawning abundance in WSMU tributaries fell below escapement goals (Table 30). At the Deshka River, Chinook salmon escapement index counts indicated an alarming decline during this period, while the average sport harvest of Chinook salmon from 1990–1992 was approximately 40% greater than the average harvest during the previous 10 years (Table 29). In response, restrictions were implemented on major WSMU streams and the Deshka River was closed to Chinook salmon fishing from June 17, 1994 to June 21, 1997 (Appendix B1). The escapement goal for the Deshka River of 11,200 Chinook salmon, counted by aerial survey, was not met from 1991–1996 (Table 30). In 1997–2007, the SEG or BEG was met for all streams, except Alexander Creek. Alexander Creek escapement counts began a steep downward trend beginning in 2006 (Table 30). Alexander Chinook salmon were designated a stock of management concern in 2010 and the fishery has remained closed since 2008. Managers suspect northern pike have contributed to reduced Chinook salmon productivity in the Alexander Drainage and a large scale pike suppression program is underway (see northern pike section). It is likely that a combination of pike predation and poor marine survival are responsible for the low productivity of Alexander Chinook salmon. The Deshka River did not achieve its escapement goal in 2008 and 2009, but did meet the goal in 2010 with a count of 18,600 (Table 30). The Lake Creek goal was missed 2008–2010 and the Talachulitna goal missed in 2010.

Fishery Management and Objectives

Management of Chinook salmon in the WSMU has undergone numerous changes since the 1980s, as has management of Chinook salmon in the entire NCIMA (Appendix B1). These changes reflect periods of strong Chinook salmon returns during most of the 1980s and from

about 1997 to 2006, surrounding period of weak returns (1991–1996 and 2007–present). An escapement monitoring weir at RM 7 of the Deshka River is an important tool for managing Chinook salmon returning to the Susitna River because of large observed escapements and relatively early run timing due the river’s closeness to the mouth of the Susitna River. The Deshka weir operates from mid-May through the duration of the Chinook salmon season to provide managers with timely inseason run information as well as post season biological data used to assess productivity in this system (Appendix I). A weir-based SEG range of 13,000–28,000 fish was established for the Deshka River based on actual escapement, age, and harvest data gathered at the weir. SEG ranges for four other WSMU systems (Lake, Alexander, and Peters creeks, and the Talachulitna River) were also established in 2002 (Table 19). SEGs were based on historical aerial index counts of escapement⁶. The management objective for these five systems is to achieve the escapement goals while providing maximum levels of Chinook salmon fishing opportunity.

A weir has been the cornerstone for inseason management of the Chinook salmon fishery on the Deshka River since its inception in 1995. Over recent years, a preseason outlook of run size to the Deshka River has been used for early inseason management. The preseason outlook uses sibling regression to predict the number of returning age-5 and age-6 fish. It also uses a spawner-recruit relationship combined with the average proportion of age-4 spawners to predict the number of age-4 fish. Harvest is incorporated to estimate total run size. The SWHS is generally to estimate sport harvest, whereas marine harvest is estimated by taking a proportion of the combined catches in the Northern District directed commercial setnet, Tyonek subsistence, and Kustatan subdistrict commercial setnet fisheries. That proportion is the aerial survey count of the Deshka Chinook salmon escapement divided by the sum of all aerial Chinook salmon counts in the NCI area. The outlook has limited utility as a management tool because of the variability in precision of the various models used in forecasting the three major returning age classes; the outlook has been off by an average of 8,000 fish, either over forecasting or under-forecasting runs. It is useful as an index of expected run strength, but should not be used alone to base management decisions upon.

The Deshka weir has also provided insight into accuracy of the aerial count. Spawners have been counted by helicopter since 1979, with a single pass over all known spawning areas at the peak of spawning (Lafferty 1997). Because the Deshka River is the top producer of Chinook salmon in the NCIMA, a weir was installed in 1995 in order to monitor actual numbers in the escapement. Subsequent aerial counts were correlated with the escapements (weir count minus harvest above the weir) and averaged 40% of the escapement (Table 30). The aerial counts were used as an index of escapement even prior to the weir program. Poor aerial counts during the early 1990s suggested diminished runs and were the basis of areawide restrictions affecting Chinook salmon fisheries. The weir substantiated that the low aerial counts were an index of low escapements

Inseason liberalizations to the Deshka River Chinook salmon fishery were common 2000–2006 (Appendix B2) because the Deshka River escapement exceeded the escapement goal of 17,500 fish from 1999–2001 and exceeded or was within the more recent SEG range from 2002–2007

⁶ Bue, B. G., and J. J. Hasbrouck. *Unpublished*. Escapement goal review of salmon stocks of Upper Cook Inlet. Alaska Department of Fish and Game, Report to the Alaska Board of Fisheries, November 2001 (and February 2002), Anchorage.

(Figure 24). Escapements trended downward after 2007, likely the result of poor marine survival. In 2008, inseason information from the weir indicated a weak run and the fishery was closed by June 19. In 2009, the outlook indicated achieving the low end of the goal; however, past performance of the outlook in over forecasting the age-4 component of the run led to concern over achieving the goal and therefore preseason action was taken to reduce harvest by restricting harvest to Saturday–Mondays only and not allowing bait. A lower than anticipated run forced a closure of the Deshka on June 11 at the quarter point of the historical run. The low count in 2009 was due to a record low return of age-5 and age-6 fish rather than a low return of age-4 fish, as projected (Richard Yanusz, Fishery Biologist, ADF&G, Division of Sport Fish, Palmer, Alaska, *personal communication*). The Deshka goal was missed in 2008 and 2009. The goal was attained in 2010 with minimal inseason change (an EO restricted bait from the fishery between June 12 and June 19 (Table 30).

Northern pike have likely reduced Chinook salmon productivity in the Alexander Creek drainage through predation on juvenile salmon. Low escapement counts beginning in 2006 resulted in the sport fishery being closed by BOF action in 2008. Currently an effort is underway to suppress the pike population in Alexander Creek through annual gillnetting (see northern pike section).

Area wide flooding has been an issue within the past decade. A 100-year flood swept much of the NCIMA during August 2006. This flood would have affected major age classes returning from 2010–2012, further compounding diminished returns thought to have been caused by poor marine survival since 2007. A similar large flood occurred in September 2012; runs occurring from 2016–2018 could be affected.

Currently, the bag limit for WSMU Chinook fisheries is one fish daily and two in possession. A seasonal limit of five Cook Inlet Chinook salmon also applies. Only unbaited, single-hook artificial lures are allowed in large portions of Lake and Alexander creeks and the Deshka River, and in the Talachulitna River. Sport fishing guides may not participate or engage in fishing for Chinook salmon while clients are present or within their control.

Sport Fishery Performance and Escapement in 2011 and 2012

In 2011, total Chinook salmon harvest from all WSMU streams was 5,900 fish, about one-third of the average harvest during the early 2000s (Table 23) when harvest levels were stable. No inseason action was necessary in 2011 in the Deshka Chinook fishery. A final weir count of 18,968 was below the average of 26,000 and about the midpoint of the escapement goal range (SEG 13,000–28,000; Table 30). Despite angler success being fair to good throughout the season, the resulting harvest of 3,139 was below the 2006-2010 average of 2,959 (Table 29). Among WSMU streams, 3 of 5 SEGs were attained in 2011. Goals were missed on Alexander Creek and the Talachulitna River (Figure 24).

During 2012, preseason action was taken to reduce harvest up to 50% across the Susitna and Little Susitna drainages. An area wide restriction reduced the annual limit to 2 Chinook over 20 inches and allowed use of only one, single hook, artificial lure. Fishing at the mouth of the Deshka River was mostly good, but considered lower than the previous two seasons. A weir located at river mile 7 was used to evaluate run strength daily throughout the season. Projections of escapement lagged through the first half of the average run and by June 18, average to record late run time models projected the escapement at 11,200–16,130 fish. An EO was issued on June 18 to prohibit use of bait beginning on a Monday, June 20. By June 21, Deshka weir projections had not improved. By that date, about 60% through the historical average run, only 6,852

Chinook salmon had been counted through the weir and based on average and late run time models, only 11,350–14,500 fish could be projected. This information in addition to staff surveys of Lake Creek and eastside streams, justified closing the entire Susitna River drainage effective June 25. A helicopter survey of Lake Creek on June 26 substantiated low numbers of Chinook salmon in Lake Creek. The Deshka River SEG was achieved on July 7. The final weir count was 14,067 within the SEG range, near the low end of the SEG; Figure 24). Preseason action taken to reduce the annual bag to 2 fish, coupled with bait restriction and subsequent closure may have reduced harvest on the Deshka River by 25–30%. The run to the Deshka River was approximately two days late. The SEG of 2,500–7,100 at Lake Creek was narrowly missed with a final aerial count of 2,366 despite an anticipated savings of about 35–40% (Table 30).

WEST COOK INLET MANAGEMENT UNIT CHINOOK SALMON FISHERIES

Fishery Description

Prior to 2000, the WCIMU extended south from the mouth of the Susitna River to the West Foreland of Cook Inlet (Figure 25). Beginning in 2000 it was expanded to include all waters along the westside of Cook Inlet to the latitude of the southern tip of Chisik Island. Streams in the WCIMU, with the exception of the Chakachatna–McArthur and the Beluga River drainages are relatively small, clearwater coastal drainages that originate in the Alaska Range, Aleutian Range or from slopes of Mount Susitna. The Chakachatna–McArthur and Beluga River drainages are largely glacial and receive minor use by Chinook salmon anglers. Beginning in 2000, the data in this report reflect harvest, effort and catch data from the expanded management unit.

The Chuitna and Theodore rivers were the area's most prominent Chinook salmon sport fisheries (Table 31) until being closed in 2010 due to low returns. Streams south of the West Foreland, namely the Kustatan River and Polly Creek, support small returns of Chinook salmon and generate only a small Chinook harvest. Stocks from the WCIMU are also harvested in commercial fisheries as well as a subsistence fishery located near the village of Tyonek (Table 18).

Chinook salmon begin to arrive in the area during late May with the peak of most fisheries occurring during mid to late June.

Access to the coastal fisheries of the WCIMU is by air or water because there is no road link to the Southcentral Alaska highway system. Helicopters are used to access the upper reaches of these streams, and airplanes, combined with the use of land vehicles provide access to the lower reaches. A road network, built to facilitate oil and gas exploration and the timber industry, does exist in the Tyonek/Beluga area. Several gravel aircraft landing strips are present and a few roads also serve as runways. The village of Tyonek, with a population of nearly 200, is the area's primary population center.

Historical Harvest and Escapement

In the 1990s, escapement goals were not met for some streams (Figure 26). The reduced abundance of spawning Chinook salmon in WCIMU may have been due to elevated sport harvest and flood-related mortality of eggs and juveniles in 1986. Inspection of the coastal streams after an October 1986 flood revealed substantial streambed scouring and channelization. In association with flooding, there was severe erosion, landslides and subsequent deposition of earth and debris into the streams. The 1993 escapement index count showed an improvement

over the previous four years, but decreased again in 1994. The 1994–1996 escapement counts for all streams were low. This trend finally reversed in 1997–1999 when all escapement goals were met (Figure 26). Run strength continued to be good through 2005, except that the Theodore River escapement was marginally less than the lower end of the SEG range in 2004 and 2005 (Table 32). All goals were met in 2006. Since 2006, escapements on these three streams have trended downward and SEGs have been missed (Figure 26). A spawning escapement survey conducted on the Lewis River on July 17, 2007, counted zero Chinook salmon. Upon investigation, it was found that the river had overflowed its bank about one-half mile below the bridge and was flowing into a large swampy area. After the channel was restored, the river was again surveyed on August 7 to check for evidence of spawning. No Chinook salmon were observed spawning in the Lewis River in 2007.

Sport angler harvest of Chinook salmon on the Chuitna River was as high as 1,185 fish (1983). However, in 2009 only 109 fish were harvested (Table 31) and in 2010 the Chinook salmon fishery was closed pre-season by emergency order. The average escapement from 1979–2005 was approximately 2,000 fish (Table 32). A more recent average (2006–2010) was approximately 1,000 fish, nearly one-half the previous 5-year average. The sustainable escapement goal (SEG) for Chinook salmon returning to the Chuitna River is 1,200–2,900 fish. Despite restrictive action since the mid 1990s and closure of the sport fishery in 2010, the lower bound of this goal was not achieved 2007–2010.

Sport harvest of Chinook salmon from the Theodore River peaked in 1986 at 1,400 fish and decreased to 183 prior to regulatory changes that closed the sport fishery in 1996. In 1999, sport fishing was restricted to catch-and-release. Chinook salmon escapements into the Theodore River have also declined (Figure 26). The average escapements from 1979–2005 were approximately 1,090 fish (Table 32). A more recent average (2006–2010) was approximately 350 fish, less than one-half the previous 5-year average. The SEG for Chinook salmon returning to the Theodore River is 500–1,700 fish. The Theodore River failed to meet the SEG in six of the last 10 years leading up to and including 2010 despite a catch-and-release sport fishery for Chinook salmon since 1999 and closure beginning 2010.

On the Lewis River, sport harvest was greater than 150 fish annually from 1987–1990, but the sport fishery was closed by regulation in 1996 and then restricted to catch-and-release by regulation beginning in 1999 (Appendix B1). The average escapement from 1979–2010 was approximately 490 fish (Table 32). A more recent average (2006–2010) is 72 fish, approximately one-fourth the previous period's average. The Lewis River SEG for Chinook salmon is 250–800 fish. The Lewis River failed to meet the SEG for Chinook salmon 2007–2010 despite a catch-and-release sport fishery since 2002 and closure in beginning 2010.

Fishery Management and Objectives

SEGs for three WCIMU streams were established in 2002 (Table 19), based on historical escapement index counts. The management objective for these three streams is to achieve the escapement goal while providing maximum levels of sustained Chinook salmon fishing opportunity.

West Cook Inlet Chinook fisheries are open January 1–June 30. The current bag and possession limit is one daily and one in possession, and a seasonal limit of five Cook Inlet Chinook salmon.

Only unbaited, single-hook artificial lures are allowed in drainages between the mouth of Susitna River and West Foreland. In drainages from West Foreland to the southern tip of Chisik Island, bait is allowed after May 15. The Chuitna, Theodore, and Lewis rivers were closed by the BOF during the 2011 meeting due to failed escapements over a four to five consecutive year period. These systems remain designated as stocks of management concern. The Beluga River drainage was also closed at the 2011 meeting.

Fishery Performance and Escapement in 2011 and 2012

The estimated 2011 West Cook Inlet harvest was 76 Chinook salmon, less than 10% of previous five-year harvest of 826 fish (Table 31). The major WCI Chinook fisheries occurring on the Chuitna, Theodore, and Lewis rivers have been closed since 2010, first by EO in 2010 and then by regulation beginning 2011 (Appendix B1). Beluga River drainage streams were also closed in 2011. This harvest can be attributed to a small tributaries and sloughs of the McArthur River and other minor Chinook producing streams such as the Crescent and Kustatan rivers. Aerial index surveys were conducted in late July and no SEGs were attained on the Chuitna, Theodore, or Lewis rivers.

In 2012, weirs were operated on the Lewis and Theodore rivers to enumerate the actual escapement and to estimate the proportion of the escapement counted in the aerial index count. The Chuitna River was the first choice for a weir program; however, it was found to be unweirable and sonar was eliminated as an option because species apportionment would likely impair estimates. No SEGs were met in 2012 for WCIMU streams (Figure 26; Table 32), marking the sixth consecutive year in which escapement goals were missed. The comparison of aerial count to the weir count through the date of survey, July 18, revealed 48.3% of the escapement counted on the Lewis River and 22.4% on the Theodore River (58 fish through Lewis weir and 577 through Theodore weir by date of survey). The final weir count on the Lewis River was 111 fish, 657 fish on the Theodore River.

COHO SALMON FISHERIES

AREAWIDE OVERVIEW

Areawide Historical Harvest and Escapement

Sport harvests of coho salmon in the NCIMA ranged from 17,200–105,300 fish from 1977–2012, and averaged 79,148 fish from 2006 to 2010 (Table 33). From 2006–2010, NCIMA harvests accounted for 21% of the coho salmon harvests in the Southcentral region and 13% of the statewide harvests (Table 33). Within the NCIMA, the KAMU, which includes the Little Susitna River, accounted for the largest harvest of coho salmon through 2010 with the exception of 1999 and 2000 when ESMU surpassed it. The ESMU is usually a close second, followed by the WSMU. The WCIMU, with fewer accessible streams, is a distant fourth in average harvest. Coho salmon harvest in the KAMU was dominated by harvests from the Little Susitna River until 2006. Jim Creek harvest has been slightly higher than Little Susitna River 2006–2009, and 2011–2012 (Table 34). Harvest by specific streams within the KAMU, ESMU, WSMU, and WCIMU are provided in tables 18, 20, 21, and 23, respectively.

Areawide Fishery Management and Objectives

Management of coho salmon in the NCIMA has undergone numerous changes (Appendix B3). Each season, management strategies for NCIMA coho salmon are implemented as the stocks begin entering Cook Inlet and are intercepted, first by the commercial fishery and then the sport fishery.

As coho salmon enter fresh water, the department has limited ability to gauge overall run size. Until 1997, counting weirs at the Little Susitna River and the Deshka River provided the only quantitative measure of coho abundance in the NCIMA. Beginning in 1997, weirs were also operated in Wasilla, Cottonwood and Fish creeks. Wasilla and Fish creek weirs were discontinued after 2003 and Cottonwood Creek weir after 2004. The Fish Creek weir operated 2009–2010 in cooperation with U.S. Fish and Wildlife Service (USFWS) to count both sockeye salmon escapement and coho. Prior to 2009, the weir was removed around August 15, half way through the historical coho salmon run. For 2009–2010 the weir remained in the creek until September 24. For 2012, the weir remained in the creek until September 16.

Fish wheels and sonar on the Yentna River, and foot and aerial index counts for a few streams also contribute information about relative abundance. Within the NCIMA, eight index areas are surveyed annually by foot: McRoberts and upper Jim creeks (Knik River), Cottonwood and Wasilla creeks (Knik Arm), and Rabideux, Birch, Question, and Answer creeks (Susitna River).

A creel survey to estimate coho salmon harvest and fishing effort was conducted at the Little Susitna River from 1982 through 1993. Intermittent or partial creel survey data have also been collected from other coho salmon fisheries.

Poor runs in 1997 and 1999 prompted inseason restrictions to both sport and commercial fisheries. In response to a poor return of coho salmon to Cook Inlet in 1997, emergency orders were issued to close the commercial fishery and to institute an area wide bag limit reduction and bait prohibition for wild stock sport fisheries. Restrictive action was again taken in the commercial fishery in 1998 because of a poor sockeye return. Because of the nature of the multi-species fishery, this action probably resulted in higher escapements. No additional action was required in the sport fishery during 1998, because instream coho abundance seemed to be above average. In 1999, poor returns again resulted in restrictions to the sport and commercial fisheries. Unfortunately, these restrictions were made too late to increase coho salmon escapement. Low escapements of coho salmon to UCI streams prompted the governor and users to submit a request to the BOF to meet out of cycle and address this conservation problem. The BOF met in February 2000 and significant actions to both the sport and commercial fisheries were taken to reduce the overall harvest of Cook Inlet coho salmon (Appendix B3). Since then, coho salmon returns to NCIMA streams have been mostly above average. A 100-year flood swept much of the NCIMA during the third week of August 2006. Escapement and harvest levels observed in 2008 did not indicate any effects from this flood. A 100 – year flood swept much of the NCIMA again in 2012 during the peak coho spawning period the third week in September. Coho salmon were observed spawning new Talkeetna during index surveys after the flood crested.

KNIK ARM MANAGEMENT UNIT: LITTLE SUSITNA RIVER COHO SALMON FISHERY

Fishery Description

Access to the Little Susitna River occurs at three primary locations: 1) intertidal waters of the river are accessed by boats crossing Knik Arm from the Port of Anchorage public boat launch; 2) the road-accessible Little Susitna Public Use Facility (Burma Road Access), which includes a launch and campground; and 3) private and public launches near the Parks Highway, which provide access to the upper reaches of the river. The Little Susitna Public Use Facility is the most heavily used access to the river. Powerboats can travel on the Little Susitna River from the mouth of the river to the Parks Highway during periods of moderate to high water levels. However, during low flows travel is restricted to smaller jet boats between RM 28 and the Parks Highway at RM 70.

Coho salmon return to the Little Susitna River primarily from mid-July through early September. Tagging studies indicate that coho salmon migrate slowly up the Little Susitna River and remain available to the fishery for about four weeks, after which they pass the George Parks Highway Bridge into waters closed to fishing for salmon. Spawning takes place from late September through mid-October. Spawning primarily occurs upstream from the George Parks Highway in the mainstem of the river, but some spawning occurs in tributary streams.

Stocking Program

Stocking of coho salmon occurred at the Little Susitna River from 1982–1995. Beginning in 1987, returns from smolt releases started to make significant contributions to the sport harvest. The 1995 smolt release in Nancy Lake was the last stocking of hatchery coho salmon for the Little Susitna River. The program was terminated because it was no longer cost-effective to stock the Little Susitna River because of the strength of the natural run and high cost of hatchery enhancement. A summary of the stocking program can be found in the following reports: Bartlett and Conrad 1988; Bartlett and Vincent-Lang 1989; Bartlett and Sonnichsen 1990; Bartlett and Bingham 1991, 1993; Bartlett 1992, 1994, 1996 a-b. From the mid 1980s until the 2011 Board of Fisheries Meeting, the Little Susitna River coho salmon sport fishery was managed in accordance with the Little Susitna River Coho Salmon Management Plan (5 AAC 61.060) since 1991 and as modified following the 1992 and 1996 seasons (Appendix B3). Management objectives stated in the plan were to provide an SEG of 10,100–17,700 naturally spawning coho salmon upstream of the George Parks Highway (Table 35), and to provide coho salmon fishing opportunity from the George Parks Highway downstream to tidewater without emergency restrictions.

Historical Harvest and Escapement

From 1977 to 2010, harvest of Little Susitna River coho salmon ranged from 2,452–27,600 fish with a average harvest of 12,102 fish (Table 34). It has been a consistent second to the Kenai River, which supports the largest freshwater coho salmon harvest in Alaska. Most recently, Jim Creek harvest surpassed Little Su from 2006–2009, and again in 2011 (Table 34).

Prior to 1986, coho salmon escapement to the Little Susitna River was indexed by ground and/or aerial surveys when water conditions permitted. Coho salmon escapements were counted at a

weir in 1986 and from 1988 to present (Table 35). In 1986 the weir was damaged for several days by floodwaters and the count through the weir was incomplete (Table 35). Weir counts in 2005 and 2006 were also incomplete due to high water events and again in 2012. From 1988–1995, and 2012 the weir was located at RM 32.5. From 1996 to 2011, the weir was located upstream at RM 71. As of 2012 the weir is back at RM 32.5. Direct comparison of counts between weir sites is not possible, although most spawning occurs above the RM 71 site.

During 1997 and 1999, the Little Susitna River (Table 35), as well as the whole NCIMA, experienced poor coho salmon returns. However, these low returns did not appear to affect returns in subsequent years as escapement in 2001 was 30,600 coho salmon. A record escapement of 48,000 coho salmon occurred in 2002.

Harvest estimates from the SWHS and escapement data indicate that coho salmon abundance at the Little Susitna River fluctuates widely. Inriver returns (escapement plus sport harvest) ranged from approximately 12,000–67,000 fish from 1996–2011 (Tables 34 and 35); years after the stocking program ended and for which complete escapement counts are available. Average inriver exploitation has varied with escapement over the same time period and averaged 37% (Figure 27).

Fishery Management and Objectives

Currently the bag and possession limits are two coho salmon 16 inches or more in total length per day and in possession. Only unbaited, artificial lures are allowed in the Little Susitna River from October 1 through August 5. This regulation was originally designed to reduce the catch rate of early arriving non-hatchery fish and remains in effect to reduce hook-and-release mortality of ocean-fresh coho salmon entering the lower river during the first quarter of the run. Hook-and-release mortality of coho caught within the estuary using bait was found to approximate 70% (Vincent-Lang et al. 1993) in a 1993 study designed to simulate fishing practices at the time. Today, in addition to a delay in bait use until later in the season, two other measures have been adopted, which help reduce hook-and-release mortality: 1) anglers are required to quit fishing when they reach their bag limit of Little Susitna coho salmon, and 2) coho salmon intended for release cannot be removed from the water.

Coho salmon runs on the Little Susitna River have been found to be significantly correlated to those of other Knik Arm streams (Tom Namtvedt [retired] and Richard Yanusz, Division of Sport Fish Biologists, Palmer, Alaska, *personal communication*). However, the Little Susitna River weir at its previous location (RM 71) provided very little potential for gauging run strength in other Knik Arm streams or for inseason management of the fishery which occurs primarily on the lower 40 miles of river. The weir has since moved back to river mile 32.5 to provide inseason data once again (2012). A weir was operated at this site from 1988–1995, providing run timing info for managing the fishery.

Fishery Performance and Escapement in 2011 and 2012

During 2011, fishing guides and anglers reported below average catches of coho salmon throughout the season. The SWHS showed 2,452 coho were harvested from the Little Susitna River, 78% lower than the 2006–2010 average of 11,199 fish (Table 34). The final weir count was 4,826 fish (Table 35).

In 2012, by early August, harvest numbers on the lower Little Susitna were below average. Anglers and guides reported limits being taken, but more fishing time was needed to catch a limit

of fish. A weir was operated this season at RM 32.5. A weir was operated at this site from 1988–1995, providing run timing information for managing the fishery in 2012. On August 3, low weir counts prompted action to slow the harvest of coho salmon by not allowing the bait fishery to start on Monday, August 6. This strategy was an attempt to keep harvest levels stable until a better assessment of run strength could be made the following week as it was too early for a meaningful projection of escapement. Weir counts did not improve through the weekend, resulting in action to close the sport fishery beginning August 10. Just past the midpoint of the historical run, only 4,260 coho could be projected in the Little Susitna escapement. The final weir count on the Little Susitna River of 6,779 coho salmon was incomplete due to flooding during the last three days of August. However, it is unlikely the goal would have been met even without the flooding (SEG 10,100 – 17,700). Harvest for 2012 was 1,681 coho from the Little Susitna (Table 34).

KNIK ARM MANAGEMENT UNIT: OTHER COHO SALMON FISHERIES

Fishery Description

The Knik Arm Management Unit (Figures 1 and 16) presently supports five significant sport coho salmon fisheries in addition to the Little Susitna River: Fish Creek, Cottonwood Creek, Wasilla Creek, Jim Creek, and Eklutna Tailrace. This unit also has a personal use dip net fishery on Fish Creek and four educational permit fisheries (Knik Tribal Council, Eklutna Village, and Big Lake Cultural Outreach).

Until 2006, the Little Susitna was, historically, the largest Knik Arm sport fishery in terms of both participation and coho salmon harvest (Table 34). Jim Creek harvest rates have been higher than the Little Susitna 2006–2009 and 2011–2012, but effort is slightly less than the Little Susitna. Jim Creek enters the glacial Knik River about 10 river miles from salt water. Most sport fishing occurs at the confluence of Jim Creek and the Knik River, an area locally known as the Jim Creek Flats. Fishing effort and harvest rates in the Jim Creek Flats area are strongly influenced by the Knik River because its glacial waters can inundate the entire area. Powered and nonpowered boats can access upstream reaches of Jim Creek.

Coho salmon return to Knik Arm fisheries from late July through August. Spawning occurs from late September through mid-October. The average weight of Knik Arm coho salmon, excluding those of Little Susitna River origin, is less than six pounds.

Stocking Program

The sport fishery at the Eklutna Power Plant tailrace (Figure 19) was originally supported by coho salmon returning to the Cook Inlet Aquaculture Association's (CIAA) hatchery located at the head of the tailrace. The nonprofit Eklutna Hatchery operated from 1981–1998. Presently fish reared at the ADF&G William Jack Hernandez Sport Fish Hatchery support the fishery, which is confined to the 0.5-mile-long tailrace and all waters within a half mile radius of its confluence with the Knik River, and to an ADF&G marker located two miles downstream of the confluence. Sport anglers harvest stocked coho and a few wild sockeye and chum salmon in the tailrace during the coho return. Salmon of the Knik River and Matanuska River drainage origin are also harvested at the confluence of the tailrace and the Knik River. Current objectives of the Eklutna stocking program are to stock 120,000 thermally-marked coho salmon annually to produce a return of 7,500 adult coho salmon and generate 6,000 angler-days of effort (Loopstra and Hansen 2012).

Coho salmon have been periodically stocked into other KAMU systems. Stocking of Fish and Cottonwood creeks was initiated during the late 1970s, and at Jim and Wasilla creeks in the late 1980s (Whitmore et al. 1994-1996; Whitmore and Sweet 1997-1999; Rutz and Sweet 2000; Sweet and Rutz 2001; Sweet et al. 2003, 2004). Contribution of hatchery fish to the catch and harvest in the sport fisheries was not evaluated.

Historical Harvest and Escapement

From 1987–1998, Knik Arm stocks were harvested by a set gillnet commercial fishery that operated near the mouth of Fish Creek. Coho salmon harvests averaged 2,900 annually during this period (Whitmore et al. 1996; Whitmore and Sweet 1997-1999). BOF action closed the Knik Arm commercial set gillnet fishery beginning in 1999 to allow higher coho and sockeye salmon escapements into Knik Arm streams. The total annual harvest for the six sport fisheries (Fish, Cottonwood, Wasilla, and Jim creeks, the Little Susitna, and Eklutna Tailrace) averaged 22,694 coho salmon from 2006–2010 (Table 34). Jim Creek had the highest average during this time with 13,130 coho salmon harvested, whereas the three weekend-only fisheries averaged 643 fish at Fish Creek, 751 fish at Cottonwood Creek, and 1,231 fish at Wasilla Creek (Table 34).

Escapement index surveys have been conducted on four Knik Arm streams: Cottonwood, Wasilla, Jim, and Yellow creeks. Coho salmon escapement on Fish Creek has been monitored historically by weir, except from 1994–1996 and 2004–2008, and 2011; when the weir was removed prior to August 15 and before the majority of the run. In cooperation with the USFWS, six weeks were added to weir time (after August 15) for 2009–2012 to encompass the majority of the coho run for Fish Creek (Table 35).

Fishery Management and Objectives

Fish, Cottonwood, and Wasilla creeks (Figure 16) are restricted primarily to intertidal fisheries, and have been open to salmon fishing on weekends only (Saturday and Sunday) since 1971 because harvestable surpluses cannot normally accommodate continuous daily exploitation. Time restrictions were added in February 1999 after poor returns during 1997 and 1999 occurred in these creeks (Appendix B3). Motorboats are not permitted on Wasilla Creek during weekends from July 15 through August 15.

Historical escapement data are available for Fish, Cottonwood, and Wasilla creeks from past weirs operated on each creek from about July 20 through September 25 and foot index counts conducted annually on Cottonwood and Wasilla creeks. For Jim Creek, foot surveys are conducted on McRoberts Creek, a tributary of Jim Creek, and upper Jim Creek; the counts are summed to provide a total Jim Creek escapement index. However, only the McRoberts Creek counts are used in the escapement goal. Biological escapement goals set in 1994 were reevaluated in 2002 and SEGs were established for Fish, Cottonwood, and Jim creeks (Table 35). The BEG for Wasilla Creek was eliminated in 2002 because of a lack of historical escapement data. The Jim Creek SEG was based on historic escapement index counts, and the Fish and Cottonwood goals were based on average coho salmon weir counts. Wasilla and Fish creek weirs were discontinued after 2003 and Cottonwood Creek weir after 2004. Therefore, the Cottonwood and Fish creek SEGs were subsequently dropped. Only one SEG of 450–700 fish on the Jim Creek drainage (McRoberts Creek) remains (Table 35). The management objective for these four

systems is to achieve the escapement goal while providing a maximum level of sustained coho salmon fishing opportunity.

Coho salmon weir counts on Wasilla, Cottonwood, and Fish creeks and the Little Susitna River have been found to be significantly correlated (Tom Namtvedt and Richard Yanusz, *personal communication*). Despite its low use as an inseason management tool due to the weir's location high up on the river, Little Susitna weir counts were used to liberalize bag and possession limits on the Little Susitna River and Cottonwood, Fish, and Wasilla creeks. Midseason fishing reports at Cottonwood and Wasilla creeks varied from average to below average. Sporadic fishing success continued at the mouth of Jim Creek. However, anglers fishing upstream reported low numbers of fish ascending the creek.

Effort and harvest have more than doubled on Jim Creek since about 2002 (Table 34). Managers are cautiously monitoring this system for any signs of overharvest. Adjustments to the fishery in order to maintain or lower harvest may be necessary in the future. The Cook Inlet Coho Salmon Conservation Management Plan was adopted by the BOF in February 2000 (Appendix B3) in response to poor returns of coho salmon to the Knik Arm Management Unit in 1997 and 1999 (Table 35). The plan sets the bag and possession limits for all Knik Arm fisheries, excluding the stocked coho fishery at the Eklutna Tailrace, at two coho salmon 16 inches or more in total length. Jim Lake, McRoberts Creek, and upper Jim Creek, tributaries supporting large spawning populations, are the only areas closed to coho salmon fishing in the Jim Creek drainage.

Fishery Performance and Escapement in 2011 and 2012

Total sport harvest of coho salmon in Knik Arm streams (excluding the Little Susitna River) was 6,032 fish in 2011; the 2006–2010 average was 27,324 fish (Table 34). Anglers reported good catches at Jim Creek in 2010 and poor catches in 2011. Limited inseason information on sport fishing success is available for Fish, Cottonwood, and Wasilla creeks because of the very limited open season and little angler effort. Eklutna Tailrace had below average harvest in 2011 of 1,350. The 2006–2010 average harvest was 4,331. Index survey counts varied by fishery (Table 35). The SEG (450–700) for McRoberts Creek (Jim Creek drainage) has not been met since 2009. The 2012 count was conducted late in the season due to high water and poor survey conditions. The escapement count in 2011 was 261 coho and in 2012 the count was 213 (Table 35).

In 2012, about 350 fish had been counted through the Fish Creek weir, resulting in a projected escapement of 950 fish nearing the midpoint of the run. A second boat survey of Jim Creek revealed run strength had not improved despite previous action taken the week before to reduce harvest. The Knik Arm Management Unit (KAMU), with the exception of the Eklutna Tailrace, was closed to fishing for coho salmon effective August 17. Part of the justification for closing the entire KAMU was based on past research which indicates run strength positively correlated between the Little Susitna, Fish Creek, and other weekend only fisheries such as Wasilla and Cottonwood creeks. The escapement goal on Fish Creek (SEG 1,200 – 4,400) was narrowly attained by the end of the fishing season with a final count of 1,237. A foot index survey of McRoberts Creek (Jim Creek system) of 213 fish was below the SEG of 450–700 coho salmon. The McRoberts Creek SEG has been missed for the past three consecutive years (Figure 28). The second annual youth-only fishery on Fish Creek took place the first weekend in August. Fishing success was reported as good.

In 2012, an Emergency Order was issued for Jim Creek which restricted fishing time to 6 a.m. – 6 p.m. and reduced the bag and possession limit to one coho salmon. The Jim Creek EO was

justified by a boat survey conducted by staff on lower McRoberts Creek, upper Jim Creek, and Leaf Lake, which indicated coho numbers lower than observed in the past two seasons when the escapement goal for this system was not achieved. Fishing success was also reported to be sporadic and below average, similar to the 2011 season. Harvest of coho in Jim Creek, Cottonwood Creek, and the Eklutna Tailrace was 1,858, 616, and 394 fish, respectively; all three harvests were below the 2006–2010 average (Table 34).

EASTSIDE SUSITNA AND WESTSIDE SUSITNA MANAGEMENT UNITS COHO SALMON FISHERIES

Fishery Description

A description of these management units, including access, is presented in the Chinook salmon section of this report. The Susitna River drainage supports the largest coho salmon stock within the NCIMA and the entire Upper Cook Inlet area. Coho salmon returning to the Susitna River units are early-run stocks, which begin to enter these drainages about mid-July. The migration into the Yentna River drainage (RM 28 of the Susitna River, WSMU) normally peaks the last week in July, whereas the peak passage into the Talkeetna River (RM 98 of the Susitna River, Eastside Susitna Management Unit) takes place 7 to 10 days later. Few coho salmon enter the Susitna River after early September. Most spawning occurs between mid-September and mid-October.

All Eastside Susitna Management Unit tributaries provide fishing opportunities for coho salmon. The Deshka River and Lake Creek are the major Westside Susitna Management Unit coho salmon fisheries. Fish Lakes Creek and the Talachulitna provide modest harvests, while the Alexander Creek fishery has diminished over the past decade, possibly a result of northern pike predation on juvenile coho salmon.

Historical Harvest and Escapement

Coho salmon harvests averaged 18,004 fish in the ESMU and 16,075 fish in the WSMU from 2006–2010 (Table 33). The contribution from the ESMU and WSMU to the total NCIMA coho salmon harvest during 2006–2010 was 23% and 20%, respectively.

From 2006–2010, Willow Creek, Montana Creek, and the Talkeetna River produced the largest coho salmon harvests in the ESMU, averaging 3,151, 3,308, and 3,034 fish, respectively, and accounting for approximately 53% of the Eastside Susitna harvest (Table 36). During that period, in the WSMU, coho salmon harvest averaged 3,932 fish from the Deshka River, 3,340 fish from Yentna River, and 4,205 fish from Lake Creek (Table 37).

Total coho salmon abundance in the Susitna River drainage has been estimated, in 2002, at 663,000 fish, with 46% going up the Yentna River (Willette et al. 2003); and again in 2010 with the estimated number of coho spawning upstream of the Flathorn site on the Susitna River at 196,417. Abundance in portions of this vast drainage has also been measured by sonar, fish wheel, weir, and mark–recapture methods. From 1981–1983, average coho salmon abundance was an estimated 47,000 fish in the Susitna River excluding all systems below RM 80 (Table 38). It is important to recognize that significant coho salmon returns occur in tributaries of the Susitna River downstream of RM 80 (Merizon et al. 2010). Coho salmon abundance in the

Deshka River, Alexander Creek, Willow Creek, and many other important coho salmon systems was not measured during the 1981–1983 studies.

Side-scan sonar and fish wheels have been used to estimate coho salmon abundance in the Yentna River from 1981–2008 (Westerman and Willette 2010). The Yentna River sonar program was designed to estimate sockeye salmon escapement utilizing sonar counters and fish wheels on opposite banks. Coho salmon are also counted, though factors such as the offshore distribution of upstream migrating coho affect the accuracy of the counts. Estimates of coho salmon are considered index counts only (Tarbox et al. 1983; Davis and King 1997). Coho salmon estimates made from 1981–1984 encompassed the entire duration of the coho salmon migration. Partial counts were recorded from 1985–2007 due to the sonar project shutting down prior to the end of the coho run. The number of coho salmon passing RM 80 on the Susitna River exceeded the number of coho salmon entering the Yentna River annually from 1981–1983. Sonar enumeration of coho salmon entering the Yentna River drainage ranged from 6,300–132,900 fish from 1985–2008 (Table 38).

Four fish wheels were used to capture and tag chum and coho salmon with dart tags at RM 22 in the Susitna River in July and August, 2010. Two fish wheels were used at RM 6.2 in the Yentna River and two fish wheels were used at RM 30 in the mainstem Susitna River to sample salmon for tags. Estimated abundance of chum salmon was 151,127 (SE 37,564) fish for the mainstem Susitna River and 205,869 (SE 30,256) fish for the Yentna River. Estimated abundance of coho salmon was 73,640 (SE 25,153) fish for the mainstem Susitna River and 122,777 (SE 22,697) fish for the Yentna River. A total of 719 radio tags were placed in chum and coho salmon. Their movements were tracked using 13 ground tracking stations and four drainage-wide aerial surveys. All but five of the radio tags were relocated, and 633 (88.5%) were assigned a putative spawning location. Both chum and coho salmon exhibited bank orientation at the tagging site. Chum salmon appeared to utilize predominately mainstem spawning locations, while coho salmon appeared to utilize primarily tributary locations for spawning.

Coho salmon have been counted through a weir on the Deshka River since 1995. The weir was operated at RM 17 from 1995–1996 and at RM 7 from 1997 to present. During 1996, the weir was operational only through July 30, after which high water made counting fish impossible. Incomplete counts were also recorded in 1998–1999 and 2002 due to high water events (Ivey *In prep.*). Estimating escapement during incomplete count years is nearly impossible as run timing for Deshka River coho is highly variable (Ivey *In prep.*). Average escapement from 2001 to 2010 at RM 7, including the complete count years of 2003–2005 and 2007–2010, was 27,387 coho salmon (Table 38). A peak escapement of 62,900 coho salmon occurred in 2004. The weir continues to be operated at this site annually.

Fishery Management and Objectives

Coho salmon sport fishing is permitted throughout the year at most sites in the ESMU and WSMU. However, portions of several ESMU fisheries are closed to salmon fishing to protect spawning fish. Closures usually include upper reaches of tributaries that are road-accessible.

Flowing waters of major tributaries or portions of tributaries within the Susitna River drainage are restricted to unbaited, single-hook artificial lures throughout the year. These regulations are implemented as part of special management regulations for rainbow trout under the Cook Inlet and Copper River Basin Rainbow/Steelhead Trout Management Policy (CIRTMP) and in part under current Chinook salmon management strategies (Appendix C). Under CIRTMP, only

unbaited artificial lures may be used from September 1 through May 15 in all flowing waters of the Susitna River drainage. Additionally, except in the Deshka River, bait is prohibited from May 15 through July 13 in waters open to Chinook salmon fishing. Exceptions have been made for fishing burbot when legal burbot fishing gear is used.

In the ESMU, the bag and possession limit for coho salmon is two fish 16 inches or more in total length. Bag and possession limits were increased in the WSMU at the January 2005 BOF meeting to three fish 16 inches or more in total length and six in possession, except in Alexander Creek where the two fish bag/possession limit was retained.

Besides the Deshka River weir where actual escapement is counted, four other small streams are indexed on an annual basis: Rabideux, Birch, Question, and Answer creeks (Table 38). There are no SEGs within the ESMU and WSMU.

Sport Fishery Performance and Escapement in 2011 and 2012

The 2011 sport coho salmon harvest was an estimated 9,040 fish from the ESMU, and 12,483 fish from the WSMU (Table 36 and 37), below the 2006–2010 averages. All escapement index counts for ESMU and WSMU streams were below average for 2011 and 2012 (Table 38). The Deshka weir count of 7,508 fish was below the 2006–2010 average of 15,260 coho and considered incomplete due to the weir being underwater for an extended period of time.

During 2012, fishing guides and anglers reported slow fishing for coho salmon in both the WSMU and ESMU throughout much of the season. A below average run was realized for the Deshka River. The final 2012 weir count for the Deshka River was 6,825 fish (Table 38). The 2012 harvest of coho salmon was 7,629 from the ESMU, and 9,434 from the WSMU streams, both were below average (Tables 36 and 37).

WEST COOK INLET MANAGEMENT UNIT COHO SALMON FISHERIES

Fishery Description

A description of this management unit, including access, is presented in the Chinook salmon section of this report. Little information is available regarding run timing of West Cook Inlet Management Unit coho salmon. However, it is assumed to be similar to that of the Susitna River. The Chuitna and Theodore rivers provide the major fisheries north of the West Foreland, and the Kustatan River and tributaries of Big River Lakes provide the major fishery sites south of the West Foreland. Harvest levels on Big River Lakes' tributaries surpassed those of Chuitna River every year since 2003. Currently this fishery mirrors the Kustatan River in size.

Historical Harvest and Escapement

Coho salmon harvests averaged 11,605 fish in the WCIMU from 2006–2010 (Table 33). The unit's contribution to the total NCIMA was 15% during this period. The Kustatan River is the primary producer of coho salmon in the management unit. Average harvest in this stream from 2006–2010 was an estimated 3,349 fish (Table 39). The second and third major coho producers are tributaries of Big River Lakes, with a 2006–2010 sport harvest average of 2,726 fish and Silver Salmon Creek with 1,019 coho salmon harvested during the same period (Table 39).

During recent years, the department has collected no coho salmon escapement information in the WCIMU. As a result, little information exists regarding coho salmon abundance.

Fishery Management and Objectives

Regulatory history of WCIMU is found in Appendix B3. In the WCIMU all flowing waters are closed to salmon fishing October 1–December 31. In the WCIMU, the bag and possession limits for coho salmon are three per day and six in possession. South of the West Foreland the limit is three per day and six in possession.

Sport Fishery Performance and Escapement in 2011 and 2012

The 2011 sport harvest of coho salmon from WCI unit was an estimated 6,292 fish (Table 33), below the 2006–2010 average of 11,605. The largest harvest of coho salmon came from the Kustatan River with an estimated harvest of 1,876 fish, below the 2006–2010 average of 3,349 fish. The tributaries of Big River Lakes had a harvest of 1,270 fish, below the average of 2,726 fish for 2006–2010 (Table 39).

Inseason catch information received in 2012 from sport anglers and guides indicated an average return. The 2012 harvest was below the 2006–2010 overall average, and again, the largest harvests were from Kustatan and Big River Lakes at 2,136 coho and 1,634 fish, respectively (Table 39).

SOCKEYE SALMON FISHERIES

FISHERY DESCRIPTION

The Yentna River is thought to support about 77% of the Susitna River sockeye escapement (Fair et al. 2009). The sport fishery for sockeye salmon in NCIMA drainages is mostly incidental to harvest of other salmon. Big River lakes, a major sockeye salmon sport fishery in the WCIMU, has grown over recent years and is currently the largest fishery in the NCIMA. The majority of the harvest in this fly-fishing-only fishery occurs at the mouth of Wolverine Creek, which drains into Big River lakes. Other directed sockeye salmon fisheries occur in the Susitna River drainage at Larson Creek (Talkeetna River drainage) in the ESMU; Lake Creek and the Talachulitna River in the WSMU; the mouth of Nancy Lake Creek (Little Susitna River drainage), and at Jim Creek in the KAMU. Harvests are generally smaller in the WCIMU (Tables 40–42). Any surpluses of sockeye above escapement needs at Fish Creek of the KAMU are targeted by a personal use fishery (see Personal use and Subsistence Fisheries section). The only sport fishery currently on Fish Creek is directed at the harvest of coho salmon and begins the second Saturday in August. Fewer than 350 sockeye salmon are harvested in this sport fishery on average (Table 40).

STOCKING PROGRAM

Due to declining abundance of sockeye salmon during the early 1970s, stocking of Fish Creek with sockeye salmon was initiated in 1975. See Personal Use and Subsistence Fisheries section for further information.

HISTORICAL HARVEST AND ESCAPEMENT

Sport harvests of sockeye salmon in the NCIMA ranged from 3,100–23,200 fish during 1977–2010 and averaged 13,700 fish (Table 43). Within the NCIMA, the KAMU and ESMU historically accounted for the majority of the harvest of sockeye salmon. The WCIMU, with fewer accessible streams, placed last in average harvest until about 1993 when the the sport

fishery at Wolverine Creek (Big River lakes) began to grow; most recently harvest has been greatest for sockeye in WCIMU (Figure 29). The Knik River and the Little Susitna dominate KAMU harvests (Table 40), whereas ESMU harvests are predominately from the Talkeetna River, specifically Larson Creek (Table 41). The Talkeetna River accounted for 60% of the ESMU harvest from 2006–2010. Lake Creek is the largest fishery in the WSMU, but the WCIMU harvest is predominately from Wolverine Creek (Big River lakes; tables 42 and 44). Wolverine Creek, located in Redoubt Bay Critical Habitat Area, has developed into a popular sockeye salmon fly-fishing and bear viewing area since the early 1980s.

Sockeye salmon populations are present in numerous streams throughout the KAMU, some of which were surveyed sporadically in the past (Table 45). Bodenbug Creek, a Knik River tributary, was surveyed annually from 1968–2012, except for 1984 and 1988 (Table 46).

The escapement of sockeye salmon into the Fish Creek drainage has been documented. Escapement of these late-run sockeye salmon ranged from 2,705 fish in 1973 to 307,000 fish in 1940 (Kyle and Chlupach 1990). From 1968–2011, escapement of sockeye salmon ranged from 2,700 fish in 1973 to 192,400 fish in 1984 and averaged 65,400 fish (Table 45; Escapements were below the historical average from 1998–2001 and 2004–2008).

Escapement of sockeye salmon to the Susitna River drainage has been documented annually since 1978 at the Yentna River sonar site operated by the Division of Commercial Fisheries at RM 4 of the Yentna River, and at various times by CIAA weirs at Chelatna Lake (Lake Creek drainage), Larson Lake (Talkeetna River drainage), and Hewitt Lake (Table 45). Within the NCIMA, Division of Commercial Fisheries has also operated a weir at Packers Creek on Kalgin Island and at Judd Lake.

CIAA operated a weir on Wolverine Creek from 1981–1983 (Table 45). Increased harvest and use of the area prompted managers to investigate the escapement of sockeye salmon into Wolverine Creek beginning in 2004. A remote camera station was set up on Wolverine Creek in mid-June 2004. Technical problems resulted in incomplete counts 2004–2006 (Table 45).

FISHERY MANAGEMENT AND OBJECTIVES

Regulations for sockeye salmon sport fisheries of the NCIMA follow general regulations for other salmon over 16 inches in total length. The bag and possession limit on WSMU and WCIMU tributaries is three per day and six in possession; ESMU and KAMU tributaries are three per day and three in possession. Wolverine Creek within a 500-yard radius of its mouth is managed as the areas only fly-fishing-only waters June 1–July 31.

The management objective for sockeye salmon in the NCIMA sport fisheries is to attain established escapement goals as measured at various weirs and a sonar site while harvesting fish in excess of these escapement goals. The SEG for Fish Creek is 20,000–70,000 sockeye salmon counted through a weir. Yentna River sockeye salmon were estimated by side scan sonar located at RM 4 of the Yentna River through 2008 and evaluated against an SEG of 90,000–160,000 fish. Under the Northern District Salmon Management Plan, when runs were greater than 4,000,000 sockeye salmon to the Kenai River, an OEG of 75,000–180,000 fish became the escapement goal. The Yentna SEG and OEG were discontinued after 2008 and replaced with three weir based SEGs: Chelatna Lake (SEG 20,000–65,000), Judd Lake (SEG 25,000–55,000), and Larson Lake (15,000–50,000).

From 2004–2007, sockeye salmon sport fisheries occurring on the Susitna River were restricted through various emergency orders prohibiting retention. The EOs were based on low inseason escapement estimates generated at the Yentna River sonar and additionally in 2006, on a low pre-season projection of 190,000 sockeye salmon returning to Susitna River.

In light of declines in sockeye salmon escapements to the Susitna River, a major effort to better understand the dynamics surrounding sockeye salmon production in the Susitna River was conducted from 2006–2008. Abundance estimates were generated using a combination of fish wheels and weirs, and the distribution of spawners was assessed. Mainstem Susitna River sockeye were estimated at 107,000 (Table 45) fish in 2006 using PIT tags deployed at Flathorn and recovered at Sunshine (Yanusz et al. 2007). Neither the estimate based on PIT tags nor the estimates based on radio tags met conditions for a reliable capture–recapture experiment for the Yentna River during 2006. Sockeye salmon abundance estimates for the mainstem Susitna River were 87,883 in 2007 and 70,772 in 2008, and for the Yentna River were 239,849 in 2007 and 288,988 in 2008, based on radio tags (Table 45; Fair et al. 2009).

Part of this project was directed at establishment of a genetic baseline for Susitna sockeye salmon. Microsatellite and Single Nucleotide Polymorphism (SNPs) technology were used to further the department’s understanding of stock identification, and, in turn, exploitation of Susitna origin sockeye among various fisheries. Proportions and numbers of Susitna-origin sockeye salmon harvested in these fisheries from 2005–2009 may be found in Barclay et al. (2010).

At the 2011 Board of Fisheries meeting, the board amended the Central District Drift Gillnet Fishery Management Plan. The purpose of this plan is to ensure adequate escapement of salmon into the Northern District drainages and to provide management guidelines to the department (Appendix C1). The intent with the amendment was to pass sockeye salmon to the northern district through the first half of July and allow coho passage the latter half of July. Following guidelines set forth in the *Policy for Management of Sustainable Salmon Fisheries Policy* for the State of Alaska⁷, the BOF designated Susitna River sockeye salmon a stock of yield concern based on a failure to achieve the Yentna SEG in 5 of 8 years (Table 45) and lower than expected yields⁸. An action plan ensued, directing management of the Central District drift gillnet fishery to continue under restrictive guidelines set forth in the plan, and implementation of a restrictive measure within the *Northern District Salmon Management Plan* that limits fishing to one third of the normally allotted gear (one set gillnet not more than 35 fathoms in length) from July 20 to August 7. In late 2008, a sockeye salmon escapement goal review was conducted out of cycle (Fair et al. 2009) to address uncertainty in estimating Yentna River sockeye escapements using Bendix sonar. Review indicated the sonar based SEG should be abandoned and replaced with three weir based SEGs. Inseason management of the sport fisheries has not taken place since implementation of the action plan. The action plan states sport harvest will not be used to determine escapements or in developing escapement goals. Further, the Susitna sport fisheries will remain open with a three fish bag unless directed otherwise by the BOF and any harvest restrictions will be realized in commercial fisheries, in most cases. Weir counts at Judd, Chelatna, and Larson lakes are to be used for post season evaluation of run size.

⁷ www.adfg.state.ak.us/special/susalpol.pdf

⁸ Susitna Sockeye Salmon Action Plan

SPORT FISHERY PERFORMANCE AND ESCAPEMENT IN 2011 AND 2012

The total sockeye salmon harvest across the NCIMA in 2011 was 14,003 fish, below the 2006–2010 average harvest of 15,961 fish (Table 43). Larson Creek is the primary sockeye fishery in the Talkeetna Drainage. A harvest of 1,351 fish at Lake Creek of the WSMU was above average (Table 42), while a harvest of 3,932 fish at Wolverine Creek (Big River Lakes) in the WCIMU was slightly below average (Table 44). In the KAMU, harvest on the Little Susitna dropped to 81% of its 5-year average of 1,624 fish (Table 40) and the sockeye fishery at Jim Creek produced 1,852 fish, about 770 fish below its 2006–2010 average. Although no directed sport fishery occurs at Fish Creek for sockeye salmon, 66,678 sockeye were counted through the weir; and the personal use fishery was not opened by emergency order (see PU section). In 2011, the SEGs at Chelatna lake was met, while a count of 12,393 sockeye salmon at the Larson Lake weir was below its SEG of 15,000–50,000 fish (Table 45).

In 2012, fishing success varied across the NCIMA. Anglers fishing KAMU streams reported poor sockeye catches while those fishing Susitna River stocks were fair. A foot survey of Bodenbug Creek revealed a count of only 60 sockeye salmon, well below the 2001–2010 average of about 400 fish (Table 46). In 2012, the SEGs at Larson, Chelatna and Crescent were all met, while a count of 18,303 sockeye at the Judd Lake weir was below its SEG of 25,000 – 55,000 fish (Table 45). The 2012 harvest across NCIMA was 14,784 just below the 2006–2010 average (Table 43). The Knik River and Tributaries (including Jim Creek) had the highest harvest of sockeye with 1,704 (Table 40). Eastside streams harvested 4,277 sockeye above the 2006–2010 average of 3,921 (Table 41) and Lake Creek dominates the harvest for Westside streams with 669 sockeye (Table 42). WCIMU was just below average harvesting 4,966 sockeye (Table 44).

RAINBOW TROUT FISHERIES

FISHERY DESCRIPTION

The majority of wild rainbow trout angling occurs in the Knik Arm and Eastside Susitna Management Units (Table 47). Wild rainbow trout fisheries of the Eastside Susitna Unit extend from Willow Creek north along the Susitna River as far as Portage Creek and include Talkeetna River and the relatively smaller tributaries of the Chulitna River and East Fork Chulitna River. Most tributaries of the Eastside Unit are coldwater streams originating in the Talkeetna Mountains. Access is primarily the George Parks Hwy and by jet boat. The Westside Susitna Unit includes tributaries of the Yentna River and all streams entering the Susitna River from the west (Figure 31). Westside tributaries are a mix of streams either originating out of lake systems or from the Alaska Range. Access to these fisheries is by raft, power boat or airplane. Because of the shallow nature of many of the westside streams, drop-off float trips are common. Many lodges accommodate anglers fishing the Westside Unit.

HISTORICAL HARVEST

Rainbow trout are a highly sought-after sport fish within the NCIMA. To ensure sustained yield, various research projects have been conducted. Assessment of migration and the age and length characteristics of rainbow trout stocks were the primary focus of several investigations, including studies on rainbow trout stocks of the Deshka River, Lake Creek and Talachulitna River in 1989 and 1990 (Bradley 1990, 1991), the Kashwitna River in 1991, Peters Creek in 1992 (Rutz 1992,

1993) and the North Fork Kashwitna in 1996. Onsite creel surveys were also conducted at Lake Creek during 1988 (Vincent-Lang and Hepler 1989) and 1989 (Bradley 1990).

There were significant differences in age composition and average length-at-age among Susitna River tributaries sampled during 1989–1992 (Rutz 1992, 1993). Rainbow trout tagged during 1991 and 1992 indicated low numbers of trout over 510 mm in total length, the size limit for trophy trout defined in the *Criteria for Establishing Special Management for Trout*. This lack of adequately-sized fish, combined with the relatively slow growth rate of Susitna River basin trout in comparison to other Alaska waters containing trophy trout, suggests that these Susitna River rainbow trout stocks are not viable candidates for management as trophy fisheries (Rutz 1992).

Northern pike investigations conducted in the mid-1990s revealed the potential for a reduction of Susitna River drainage rainbow trout stocks as a direct result of northern pike colonization and proliferation throughout the area. Several lake and river populations of rainbow trout in the Westside Susitna Management Unit have been severely impacted by northern pike predation (Rutz 1999).

NCIMA rainbow trout harvests ranged from 9,547 to 74,962 fish and averaged 33,834 fish from 1977–2011 (Mills 1979-1980, 1981a-b, 1982-1994, c; Howe et al. 1995, 1996,, b, c; 2001 a-d; Walker et al. 2003; Jennings et al. 2004 Table 47), accounting for 39% of the average harvest in Region II and 27% in the state. From 1990 (when estimates of catch became available) through 2011, the average catch of rainbow trout in the NCIMA was 141,765 fish (Table 47).

Rainbow trout harvested from the Knik Arm Management Unit during this time period accounted for approximately 50% of the total NCIMA harvest. The Knik Management Unit also dominates the catch, the majority of which is from stocked lakes. A large percentage of catch and harvest is a result of the stocked lakes program.

The Westside Susitna unit accounted for 22% of the NCIMA harvest and the Eastside Susitna unit accounted for 26% from 1977–2011. The West Cook Inlet Management Unit made up 1% of the NCIMA harvest from 1977–2011.

In the Eastside Susitna Unit, Willow and Montana creeks produced the largest rainbow trout harvests until 1997 when the BOF designated them as catch-and-release fisheries for rainbow trout and Arctic grayling. The Deshka River and Lake Creek generally provide the largest harvests of rainbow trout among WSMU fisheries while Lake Creek and Talachulitna River usually produce the largest catches (Tables 48 and 49). In general, a comparison of long and short-term averages among Susitna River tributaries shows a noticeable drop in rainbow trout harvest and an increase in catch. Increased catch rates indicate growing fisheries on the Susitna River.

FISHERY MANAGEMENT AND OBJECTIVES

Management of wild rainbow trout in the NCIMA has undergone numerous changes (Appendix C). A statewide management plan (5 ACC 75.220) and policy (5 ACC 75.222) for the management of sustainable wild trout fisheries was adopted by the BOF in March 2003 as a means of uniformly managing wild trout stocks across Alaska. The goal of the policy is to protect the largely intact wild trout populations unique to Alaska by conservatively managing for optimal sustained yield. Under the optimal sustained yield concept, fishery benefits including quality of experience, diversity of opportunity, conservative consumptive harvest opportunity, and economic benefits are considered while maintaining healthy stock status (e.g., biologically

desirable size compositions and abundance levels) and genetic diversity. Conservative management of wild trout in the NCIMA follows these standards: a bag and possession limit of two trout of which only one may be over 20 inches in total length with an annual limit of two trout over 20 inches in total length. Beginning in 1987, prior to the development of statewide management standards, wild rainbow trout fisheries of NCIMA were managed under the conservative yield concept, aimed at maintaining historical size and age compositions and abundance.

In addition, many tributaries or sections of tributaries in the NCIMA are designated as rainbow trout special management waters, either as trophy rainbow trout waters or as catch-and-release-only waters. A major portion of the Eastside Susitna Management Unit, from the junction of the Susitna and Talkeetna rivers upstream to Devils Canyon, has been managed for trophy-size trout (trout over 20 inches) since 1987. Under this strategy, only one trout 20 inches or more in total length is allowed daily with a seasonal limit of two trout over 20 inches. All trout less than 20 inches must be released immediately. An unbaited, single-hook lure requirement complements this strategy.

Catch-and-release rainbow trout fisheries include the Talachulitna River, most of the Lake Creek drainage, much of the Deshka River, the Fish Creek drainage located within the Talkeetna River drainage, the North Fork of the Kashwitna River, and Willow and Montana creeks. Unbaited, single-hook lures are mandatory in all catch-and-release waters. Catch-and-release strategies perpetuate quality fishing rather than protect or rebuild depressed stocks (see Engel and Vincent-Lang *Unpublished*).

Wild trout fisheries are not supplemented with hatchery trout in the Susitna River drainage. Past public testimony has suggested little interest in the use of hatchery fish to augment wild stocks and the current stocking policy supports the public's stance. Stocked rainbow trout are generally managed for maximum yield (see the Stocked Fisheries section above).

SPORT FISHERY PERFORMANCE IN 2011 AND 2012

The 2011 harvest of rainbow trout in the Knik Arm Management Unit was 9,510 fish, respectively. The 2007–2011 average harvest for this stock was 10,897 fish (Table 50).

In 2011, most rainbow trout harvests in the KAMU were from the stocked lake fisheries: the Kepler Lake complex (1,673 fish), Finger Lake (2,095 fish), Memory Lake (290 fish), Big Lake (887 fish), and Knik Lake (385 fish).

Rainbow trout catches in KAMU during 2011 was highest at Kepler Lake complex (13,609 fish), Finger Lake (5,444 fish), closely followed by Big Lake (5,278 fish), and Knik Lake (1,174 fish) (Table 51). The Little Susitna River rainbow trout catches varied from 1,071 fish in 2010 to 352 fish in 2011, the average for this fishery from 2007–2011 was 771 fish (Table 51).

In the Eastside Susitna management unit the 2011 harvest was 1,058 rainbow trout and was just above the five-year average for the ESMU. The 2011 Westside Susitna management unit harvest of 514 fish was slightly less than the 2007–2011 average of 635 rainbow trout (Table 48 and 52).

The 2011 catch for the Eastside Susitna Management Unit was 57,719 rainbow trout; this was greater than the previous five-year average of 47,208 fish. The 2011 Westside Susitna Management Unit catch was above the five-year average with 39,168 fish (Table 53 and 49).

The 2012 harvest of rainbow trout in the Knik arm was 8,294 fish, respectively (Table 50). In 2012, most rainbow trout harvests in the KAMU were from the stocked lake fisheries: Kepler

Lake Complex (973 fish), Finger Lake (821 fish), and Big Lake (492 fish) (Table 50). Catch for the Knik Arm was dominated by the Kepler Lakes Complex (5,902) and Finger Lake (3,611) (Table 51).

ESMU harvest was 623 below the 2007–2011 average of 1,200 rainbow trout. The 2012 catch of 27,446 was below the average of 47,208 (Table 48 and 53). Montana and Willow creeks lead catch with 8,590 and 8,207 rainbows, respectively (Table 53).

Catch from Westside Susitna River fisheries is dominated by Lake Creek. During 2011 only an estimated 143 rainbow trout were harvested in Lake Creek from a catch of 23,420 fish (Tables 52 and 49). The Deshka River, also a Westside Susitna tributary, yielded a rainbow trout catch of 2,156 fish and no harvest reported (Table 49). The Talachulitna River drainage, which is a catch-and-release-only fishery, produced a catch of 8,647 rainbow trout. The rainbow trout catch at Alexander Creek of 43 fish is just above the five-year mean of 37 fish. It is believed that northern pike predation is responsible for the decline in Alexander Creek rainbow trout catches since 1990.

In 2012, Lake Creek dominated catch on the Westside Susitna Management Unit with 12,321 rainbow trout. Total catch for WSMU for 2012 was 24,718 (Table 49).

In 1997, Willow and Montana creeks, previously the largest producers of rainbow trout harvest of the eastside Susitna River drainage became catch-and-release fisheries. This accounted for a large portion of the drop in harvest for the Eastside Susitna Management Unit from previous years. These two fisheries, along with the Talkeetna River, dominate Eastside Susitna Management Unit catch (Table 53).

NORTHERN PIKE FISHERIES

FISHERY DESCRIPTION

Northern pike are not indigenous to the NCIMA although they are north of the Alaska Range. They were illegally introduced into the area during the early 1950s. Since then, northern pike have expanded their range both naturally and through subsequent illegal stockings. They have been reported in more than 100 lakes and more than a dozen tributaries of the Susitna River (Sweet and Rutz 2001). Prior to about 1992, several of these lakes consistently produced northern pike in the trophy-class range (greater than 40 inches for catch-and-release honorary certificates or 15 lb), and it was common to find fish weighing up to 20 lb and occasionally over 30 lb. The potential for proliferation of northern pike in the Susitna Drainage is immense. Most of the habitat suitable to northern pike is found within the lower-lying WSMU. The area from the headwaters of the Deshka River (Petersville Road) across the Kahiltna River to Hewitt Lake, then down to the mouth of the Susitna River, encompasses areas where most of the pike and pike habitat exists (Figure 31). In the KAMU, most pike habitat exists in a triangle created by the Susitna River and Parks Highway south of Willow (Figure 16). This area includes the Nancy Lake, Big Lake, and the Little Susitna River drainages, and lakes of the Susitna Flats such as Flathorn and Figure Eight lakes. Growing or even new pike fisheries are expected in these areas as northern pike continue colonization of the NCIMA. Northern pike were documented in Big Lake and Nancy Lake in 2005. The amount of available pike habitat in ESMU waters is sparse when compared to that of the WSMU or KAMU. Regardless, pike have been documented or reported in some of the lakes in the ESMU.

HISTORICAL HARVEST AND CATCH

In 1977, the first year estimates were available, harvest of northern pike in the NCIMA was only 130 fish, accounting for only 1% of the statewide harvest of northern pike (Table 54). Northern pike harvests slowly increased through 1983 when the harvest totaled 950 fish. Since 1984, harvest of northern pike has greatly increased, likely due to continued range expansion and increased angler interest. Interest in northern pike as a sport fish grew in the mid-1990s as concerns about their spread increased and regulations were subsequently liberalized (Appendix B4). As interest increased, harvest increased sharply (Figure 32). Harvests have been over 5,000 fish in all years since 1990 except 1994 and 1995. The 2007–2011 average harvest in the NCIMA was 9,129 fish, about twice the historical average of 5,833 fish (Table 54).

Since 1990, the first year catch estimates were generated from the SWHS, the average catch of northern pike in the NCIMA has been about 3.5 times the harvest. The first northern pike catch from the ESMU and WCIMU was documented in the SWHS in 1996 and 1993, respectively (Table 54). Previously, other than anecdotal information, no information was available regarding northern pike catch or harvest from these areas. The NCIMA harvest surpassed the Arctic-Yukon-Kuskokwim area for the first time in 1997.

FISHERY MANAGEMENT AND OBJECTIVES

The management objective for this fishery is to maximize harvest opportunity. The majority of the NCIMA does not have a bag or possession limit for northern pike. Note that this is in contrast to other areas of Alaska where pike are indigenous and are managed conservatively.

In 1997 and 2002, the BOF liberalized harvest methods in many lakes within the NCIMA where pike populations were pervasive (Appendix B4) by allowing use of five lines while fishing through the ice. Five line areas were further expanded at the 2008 BOF meeting with the addition of several tributaries of the Susitna drainage that were thought to contain nearly only pike. Additional water bodies may be added to this list as pike gain strongholds in new areas through continued range expansion. In 1998 the BOF adopted a slot limit regulation for Alexander and Trapper lakes to provide anglers the opportunity to catch large fish. The daily bag limits were set at: less than 22 inches in total length, no limit; 22–30 inches, no retention; and over 30 inches, one per day. The objective was to remove fish less than 22 inches in length from the population while protecting fish in the 22–30 inch range, allowing them a chance to attain a larger size when they would again be available for harvest. In 2002, the slot limit was repealed for Trapper Lake when it was determined only one lake, Alexander Lake, would be used to evaluate the effectiveness a slot limit management strategy. Evaluation took place in 2008. Length frequencies were found to be similar between pike sampled 1995–1996 and 2008. The slot limit may have maintained the historical size structure, providing continued opportunity to harvest trophy-sized pike, whereas liberalized regulations on other popular lakes such as Figure 8 and Flathorn lakes have generally resulted in low numbers of large pike. Either case can result in angler dissatisfaction since liberal regulations tends to result in high abundance of smaller pike while a slot strategy allows mostly harvest of small pike (less than 22 inches). To remedy dissatisfaction with the slot limit, in 2009, the BOF met out of cycle to eliminate the slot limit and replace it with a size limit that would allow harvest of medium-size pike (22–27 inches), but still somewhat protect trophy pike. This new strategy allows unlimited harvest of pike less than 27 inches in total length and a daily bag limit of one pike over 27 inches in total length. At the

2011 BOF special provisions were added to Big and Nancy lakes to use bait from November 1–March 15 in order to target pike through the ice.

The current management strategy was based on recommendations stemming from a study conducted from 1994 to 1996 that described seasonal movements and age, length, and diet composition of northern pike in selected Susitna River tributaries (Rutz 1999). This study gathered baseline data to describe pike population structure and measure the effects of pike on salmonid productivity in the area. Results were extrapolated to potential effects on other salmonid-producing areas of NCI (Whitmore and Sweet 1998). Coho salmon productivity was found to be most adversely affected due to overlap in habitat use (Rutz 1999; Roth and Stratton 1984). Areas that once contained healthy fish populations but that now contain mostly pike include Alexander Lake and all inlet streams, Fish Creek of the Nancy Lake canoe system, Fish Creek of Kroto Slough, Fish Lake Creek of the Yentna River, and Three Mile River and lakes of WCI. It is suspected that pike have invaded Cottonwood Creek because they have been documented in Anderson Lake, a lake intermittently connected to the Cottonwood system. The department has had anecdotal reports of northern pike in Jim Creek, but their presence has not been documented. Because the Big Lake, Cottonwood, and Jim creek systems have ideal pike habitat, salmonid populations would likely be severely affected by colonization. The Little Susitna River has limited pike habitat, so the negative effects to salmonid stocks there may be limited except for sockeye salmon production that occurs in Nancy Lake.

Future management of northern pike in the NCIMA will follow guidelines and strategies outlined in the Management Plan for Invasive Northern Pike in Alaska (ADF&G 2007) implemented in 2005, and the Alaska Aquatic Nuisance Species Management Plan (ADF&G 2002). In 2010, a regional effort was made to prioritize northern pike waters in the Matanuska–Susitna, Anchorage, and Kenai areas for eradication or suppression. Prioritization was based on many factors, including threat to species existence, threat to an existing fishery, the magnitude of the fishery, economic impact, cultural significance, feasibility, probability of success, etc⁹. All waters have not been prioritized as of yet, though Alexander Creek was fully evaluated using this priority matrix and rated a number one priority for suppression. Legislative funding was secured to initiate a full-scale gillnetting effort on side channel sloughs of Alexander Creek beginning in 2011. See Oslund, S. and S. Ivey. 2010, Appendix C for a history of northern pike in the Alexander Creek drainage, impacts to anadromous and resident fish species, and past studies conducted on pike within this system. To date (2012 field season), 9,000 pike have been removed from this system as a result of suppression efforts.

SPORT FISHERY PERFORMANCE IN 2011 AND 2012

The NCIMA estimated harvest of northern pike during the 2011 season was 11,089 fish. The 2007–2011 average harvest was 9,129 fish. The KAMU and WSMU each accounted for the majority of the harvest, with the remainder from the ESMU and WCIMU (Table 54). Figure 8 and Flathorn lakes, and Nancy Lake complex contributed over 60% of the KAMU average catch in 2011 (Table 55). Alexander Creek Drainage was the main producer of northern pike (>50%) on the WSMU throughout the same period (Table 56). Estimated catch of northern pike during 2012 was 500 fish below the five-year average. Estimated harvest of pike in 2012 was 7,815 fish. WSMU leading harvest with 4,505 pike (Table 54).

⁹ Region II Invasive Northern Pike Priorities. *Memorandum*. Alaska Department of Fish and Game, Division of Sport Fish, Anchorage.

STOCKED LAKE FISHERIES

Currently 83 lakes in the NCIMA are stocked on an annual or biennial basis. These lakes range from two to 362 surface acres and are stocked with a variety of sizes and species of game fish including: rainbow trout, coho salmon, Chinook salmon, Arctic grayling, and Arctic char.

In most cases stocked landlocked lakes represent new fisheries because game fish were not present before stocking occurred. Stocked lakes benefit anglers and related businesses by providing diverse, year-round fishing opportunities and by diverting angling pressure from wild stocks. The majority of the stocking is directed toward road-accessible lakes that tend to draw entire family groups for some combination of fishing, camping, picnicking, boating, snow machining and ice skating. Many lakes have additional restrictions on motor use, access, and quite hours listed in lake management plans established by the Mat-Su borough (Appendix J).

HISTORICAL STOCKING PROGRAM

The stocking program began in 1952 when two lakes received 22,000 rainbow trout fry. Eight species of salmonids have been stocked since 1952. Steelhead/rainbow trout from the Karluk River (Kodiak) and four strains of Alaska rainbow trout (Naknek River, Talarik Creek, Swanson River and Big Lake), as well as rainbow trout from federal and private hatcheries located in Idaho, Montana, Oregon and Washington have been stocked. Landlocked salmon fisheries have been supported by coho salmon from Washington State and at least nine Alaskan egg take sources, and Chinook salmon from three Alaskan sources. Since 1979 only indigenous Alaskan fish have been stocked in the NCIMA. Arctic grayling egg take sources have been Junction Lake, Tolsona Lake and Moose Creek. Arctic char, originating from egg takes at Aleknagik Lake, and lake trout from Paxson Lake were first stocked in 1988.

The final egg take from Big Lake strain rainbow trout broodstock at Fort Richardson Hatchery took place in 1993. All resulting fingerlings were stocked in Big Lake drainage lakes and all remaining broodstock was stocked in Anchorage area landlocked lakes and in Big Lake. Swanson River strain rainbow trout are the sole rainbow trout broodstock source remaining at the Ft. Richardson Hatchery. Beginning in 1994, Big Lake drainage system lakes having intermittent outlets have been stocked with triploid all-female Swanson River strain rainbow trout.

CURRENT STOCKING PROGRAM

Rainbow trout, coho salmon, Arctic char and Arctic grayling are now the primary species used in the stocking program. Rainbow trout comprised 60% of all fish stocked in landlocked lakes within the NCIMA from 2011–2012. Annual releases of all species during 2010–2012 ranged from 1,010,675 to 606,588 fish (Table 57).

The majority of rainbow trout released into NCIMA waters are fingerlings. Most fingerlings weigh 1–2 grams and are released in July and August. Catchables weigh around 100 grams and are stocked in nonproductive lakes to increase angling opportunities and help maintain good catch rates in heavily fished lakes. Nearly 15% of the rainbow trout stocked in the NCIMA are catchable size at introduction. Anglers expended an average of 23,363 fishing days to catch 22,232 rainbow trout in 2012 (Table 58).

Coho salmon are normally stocked in May at about 3 to 5 grams each. These fish achieve a harvestable size (six to 11 inches) at age 2, the year following release. Most coho salmon are

either harvested or die after becoming sexually mature by age 3. Stocked salmon support important winter fishing opportunities in the NCIMA

Historically, Arctic grayling were stocked in early summer as sub-catchables weighing up to 70 grams. 2013 is the first year catchables will be available from the new William Jack Hernandez Sport Fish Hatchery for stocking and grayling will be 100 grams. Chinook salmon were stocked as catchables, weighing about 100 grams, in early November providing winter ice fishing opportunities in four heavily fished lakes. Arctic char are stocked as catchables weighing about 250 grams in June, providing more diversity for sport fishing (Table 59).

STOCKING PROGRAM EVALUATIONS

Research has accompanied development of the area's stocking program since the early 1970s. The primary objective of this research has been to develop cost-effective stocking practices that provide both expanded and diverse fishing opportunities. A survey of anglers fishing stocked lakes in the NCIMA in 1977 revealed that 70% preferred to fish for rainbow trout, 19% desired landlocked coho salmon and 11% listed Arctic grayling as their choice (Watsjold 1978).

Lake stocking research has also been directed toward the following: evaluation and selection of rainbow trout broodstock, development of effective stocking densities and size of stocked fish for various lake environments, establishment of optimal time and frequency of stockings in various landlocked lake environments, evaluation of sterile coho salmon and rainbow trout for stocking lakes that have open or intermittent linkage with drainages that support wild fish, and evaluation of female diploid rainbow trout to eliminate high mortality associated with spawning males (Bentz et al. 1991). Although research indicates that the contributions from the landlocked lake stocking program have been significant to date, poor survival of stocked fish has also been documented.

Studies have also documented growth of stocked rainbow trout fingerlings released in July and August weighing 1–2 grams. By June of the year following introduction, age 1 fingerlings will typically range from 3–6 inches in total length, at age 2 from 6 to 11 inches, at age 3 from 11 to 16 inches, and at age 4–5 from 16 plus inches in total length. Approximately 70% to 80% of the rainbow trout harvested from stocked lakes are age 2 and about 15% to 20% are age 3. Few stocked rainbow trout exceed age 5 and relatively few rainbow trout achieve harvestable size prior to age 2 (Havens et al. 1995).

FISHERY MANAGEMENT AND OBJECTIVES

Presently there are three lake management plans addressing stocking for NCIMA lakes: *Finger Lake Management Plan*, *Kepler-Bradley Complex Management Plan* and *Matanuska-Susitna Valley Small Lakes Management Plan* (Loopstra 2012).

The primary objective of the stocking program is to provide additional fishing opportunities in a cost-effective manner on a sustainable basis by stocking lakes with game fish that are indigenous to Alaska. An additional objective is to reduce effort on the area's wild stocks and ensure that stocking does not negatively impact wild stock genetics or other fisheries. All stocking is conducted in accordance with guidelines set forth in the *Statewide Stocking Plan for Recreational Fisheries* (Loopstra 2012).

Stocked landlocked lakes fall under the maximum sustained yield management concept. Bag and possession limits under this management concept are five rainbow trout, only one over 20 inches,

with an annual limit of two fish over 20 inches, except in the stocked lakes of the Knik Arm and Susitna River areas, where the annual limit is ten rainbow trout 20 inches or longer. Although stocked lakes are primarily managed for put-and-take fisheries, three stocked lakes (Long Lake in the Kepler/Bradley complex, Wishbone Lake, and X Lake) have been established for catch-and-release fishing. These three lakes allow only unbaited, artificial lures, and are closed November 1 to April 30.

Future management of stocked lakes face two main issues:

- (1) Northern pike have been illegally stocked in local lakes. An invasive species program is currently underway (see northern pike section of this report) with a goal to control or eradicate northern pike in stocked lakes and to prevent future illegal stockings. The alternative to northern pike control is to discontinue or alter stocking on a case-by-case basis. Differences in lake structure with respect to available northern pike habitat and deep water refuges for stocked species warrant different approaches to management. Stocking in Big and Little No Luck lakes was discontinued. Stocking has been altered and limited to fully landlocked catchable fish only in South Rolly, Prator, and Memory lakes due to presence of northern pike (Appendix K).
- (2) The second issue is ongoing in our area. In the past 20 years, the Mat–Su Valley population has increased enormously. Subdivisions have been developed around lakes that once had no development and very little use. Now sport fishing, wildlife viewing and jet skiing are new activities on many of these lakes. Increasing arguments between lakefront owners and other users concerning noise and boat wakes led to the creation of Mat–Su Borough Lake Management Plans for a number of Mat–Su Valley Lakes (Appendix K). These plans were developed through a public meeting process which determined prohibited activities for each lake. As the population continues to increase, the number of management plans that limit use of lakes will increase as well.

SPORT FISHERY PERFORMANCE IN 2011 AND 2012

In 2011, 81 lakes were stocked with 606,588 game fish. The majority of these lakes are located in the Knik Arm Management Unit and the remainder in the Eastside Susitna Management Unit. Releases in 2011 included 443,186 rainbow trout; 50,057 coho salmon; 55,575 Arctic grayling; and 57,770 Arctic char (Table 57).

An estimated 21,056 angler-days of participation resulted from the area's landlocked stocking program in 2011 (Jennings et al. 2012) excluding effort at lakes having both stocked and indigenous game fish. The 2012 catch from stocked landlocked lakes included an estimated 22,232 rainbow trout, of which 5,280 (24%) were harvested; 4,863 landlocked salmon of which 58% were harvested tripling catches from 2011; 565 Arctic grayling, of which 8% were harvested; and 1,097 Arctic char, of which 27% were harvested (Table 58).

The Kepler Lake Complex (including Kepler, Bradley, Canoe, Echo, Irene, Long, Matanuska, and Victor) supported 3,161 angler-days of effort. Finger Lake supported 2,439 angler-days of effort (Table 35). Collectively, these two sites yielded approximately 37% of the effort associated with stocked landlocked lakes within the NCIMA (Jennings et al. 2012).

Rainbow trout and Landlocked salmon dominate catch in stocked lakes. In 2012 4,863 landlocked salmon and 22,232 rainbows were caught (Table 58).

PERSONAL USE AND SUBSISTENCE FISHERIES

OVERVIEW

Brannian and Fox (1996) and Reimer and Sigurdsson (2004) provide a detailed history of subsistence and personal use salmon fishing regulation and management in UCI. Sockeye salmon is the predominant harvest in these fisheries in UCI.

Fish Creek sockeye salmon have long been used in commercial and subsistence¹⁰, as well as personal use, fisheries. The Knik Arm subsistence fishery was operational through 1970. In 1971 the fishery was closed because of declining sockeye salmon escapements into Fish Creek. It was reopened in 1984 and 1985, and then closed again in 1986.

The Fish Creek commercial set gillnet and personal use dip net fisheries along the northwest shore of Knik Arm were initiated by the BOF in 1986 to harvest sockeye salmon surplus to spawning and egg take needs. These fisheries continued annually, contingent upon a projected escapement of 50,000 Fish Creek sockeye salmon. The commercial gillnet fishery was closed by BOF action from 1999 through 2001, due to low returns in 1997 and 1998. The fishery was eliminated by the BOF in 2002 because returns continued below desired escapement levels. Average annual harvest of sockeye salmon in the commercial gillnet fishery while in existence was 23,400 fish (Table 60). The personal use fishery has been opened in 2011 and closed in 2012.

The *Upper Cook Inlet Subsistence Management Plan* provided for a subsistence set gillnet fishery in marine waters in the Northern District of UCI in 1991, 1992 and 1994. Subsistence set gillnet fishing was allowed for a total of 17 days between May 21 and September 28. Hours for the fishery were 8:00 a.m. until 8:00 p.m. The threat of a court-ordered closure of this subsistence fishery for the 1995 season caused the BOF to take action to allow the fishery to proceed as a personal use gillnet fishery. Annual harvest ranged from 3,900 fish in 1985 to 53,300 fish in 1994 with an average harvest of 31,500 sockeye salmon (see Table 60 in Sweet et al. 2003). Coho, sockeye, and pink salmon were harvested as well. This personal use gillnet fishery was eliminated by the BOF prior to the 1996 season.

FISHERY DESCRIPTIONS

The current personal use fisheries within the NCIMA include a sockeye salmon dip net fishery in Fish Creek, a dip net fishery for Alaska residents 60 or older on the Beluga River, and a personal use eulachon fishery, the majority of which takes place in the Susitna River. During the 2008 the board opted to create a personal use fishery for residents over the age of 60 in the Beluga Area. This fishery was predicated on the loss of fishing opportunity in the Beluga area as a result of pike predation on sockeye salmon in Three Mile Creek, lack of access to area fisheries, and poor Chinook salmon returns to WCI streams. A permit holder may obtain his or her annual limit of 25 salmon per head of household and 10 additional salmon per listed dependent. No Chinook salmon may be retained and a cap of 500 other salmon is enforced. All Chinook salmon caught must be released immediately. This permit is only good for the Beluga River and does not allow the permittee to participate in any other Alaskan personal use fishery.

¹⁰ Engel, L. and D. Vincent-Lang. *Unpublished*. Area Management Report for the recreational fisheries of Northern Cook Inlet. Report to the Alaska Board of Fisheries, November 1992. Alaska Department of Fish and Game, Division of Sport Fish, Anchorage.

There is also a small harvest of eulachon in the Knik Unit at the mouth of Fish Creek (Table 61).

Subsistence fisheries include the Yentna River subsistence fish wheel fishery and the Tyonek subsistence fishery. The Yentna subsistence fishery occurs in the mainstem Yentna River from its confluence with Martin Creek upstream to its confluence with the Skwentna River, and is prosecuted only by fish wheel. The Tyonek subsistence fishery occurs adjacent to the village of Tyonek; harvest occurs by gillnets (see also Appendix C1).

FISH CREEK SOCKEYE SALMON STOCKING PROGRAM

Due to declining abundance of sockeye salmon during the early 1970s, stocking of Fish Creek with sockeye salmon was initiated in 1975. The Big Lake state fish hatchery supported the program through 1992 using Fish Creek broodstock. After the Big Lake hatchery closed in 1993, stocking continued using Fish Creek broodstock reared at the Eklutna Hatchery, a private non-profit hatchery operated by CIAA (Cook Inlet Aquaculture Association) and located on the Knik River in the Eklutna Power Plant tailrace. CIAA discontinued operation of the Eklutna Hatchery in 1998 following the 1997 release, at which time the program was switched to the Trail Lakes Hatchery, another CIAA facility. Production goals were 9 million sockeye salmon eggs of Fish Creek brood, from which sockeye salmon fry and smolt were released annually into the Big Lake drainage. Stocking was discontinued after the 2008 release.

HISTORICAL HARVEST AND ESCAPEMENT

The personal use dip net fishery on Fish Creek sustained an annual average harvest of 9,700 sockeye salmon from 1987–2001, ranging from 460 fish in 2001 to 37,200 fish in 1993 (Table 60). The fishery was closed by EO after the third day in 2001 and has been opened three times since, in 2009–2011 with an average harvest of 11,542 salmon. Prosecution of this fishery is dependent on projected escapements into Fish Creek. This dipnet fishery may open between July 10 and July 31 when the escapement of sockeye salmon is projected to be more than 50,000 fish. The preseason forecast (2012) was for a total run of 84,000 sockeye salmon to Fish creek with half assumed harvested in Cook Inlet commercial fisheries. The 50,000 fish trigger could not be projected during the season and the dipnet fishery was not opened. The final weir count was 18,813 sockeye salmon and short of the goal (SEG 20,000 – 70,000). Levels of escapement have been mostly below average since about 1998, until 2009.

The average Susitna River eulachon harvest from 2002–2011 was 2,719 fish and ranged from 10–16,900 fish (Table 61). The inriver return of eulachon to the Susitna River drainage ranges in the millions with personal use harvest accounting for less than 1% of this return. In terms of harvest, this fishery is likely one of the most underutilized in the state. It is managed inseason with spot checks conducted by ADF&G staff in the Palmer office, and postseason through the SWHS. It is likely that unless increased access is provided to the Susitna River, the personal use harvest of eulachon will remain fairly stable. No eulachon were reported harvested in the KAMU. It should be noted that no reported harvest has occurred since 2007 which most likely indicates low participation in this fishery, making it difficult to estimate harvest through the SWHS which randomly surveys anglers. Inseason observations of run strength by staff in 2011–2012 indicate good returns. The harvest in 2012 was 3,290 and is similar to the 2007–2011 average.

The personal use dip net fishery on Beluga River began in 2008. The peak of salmon harvest in this fishery to date is 225 salmon in 2009 (Table 62). The harvest in 2011 was predominately

sockeye, and a total of 159 salmon. The lowest harvest to date was 2012 with a harvest of only 16 salmon.

Average annual harvest in the upper Yentna River subsistence fishery is 513 fish from 2002–2011. Sockeye salmon are the primary species harvested. For the same period, the average sockeye harvest is 401 fish (Table 63), 279 sockeye were harvested in 2012.

The Tyonek subsistence fishery average Chinook harvest from 1981–2011 is 1,233 fish, followed by an average harvest of 134 sockeye and 126 coho salmon. Very few chum and pink salmon are harvested in this subsistence fishery (Table 64).

FISHERY MANAGEMENT AND OBJECTIVES

In 2002 the SEG for sockeye salmon on Fish Creek was changed from a point goal of 50,000 fish to a range of 20,000–70,000 fish. Further, the Fish Creek dip net fishery was modified under the *Upper Cook Inlet Personal Use Salmon Fisheries Management Plan* (5AAC 77.540). The commissioner will open the fishery from July 10 through July 31, if the department projects the escapement of sockeye salmon into Fish Creek will be above the upper end of the escapement goal of 20,000–70,000 fish. Prior to 2002, the fishery was open until closed by EO. Participants in the fishery must obtain an UCI personal use permit, which also includes the Kenai River and Kasilof River personal use dip net fisheries, and the Kasilof River set gillnet personal use fishery. The annual limit is 25 fish for the head of household plus 10 fish for each additional member of the household, and is inclusive of all UCI personal use fisheries. Permits must be returned with the total catch recorded. The closing date is set at July 31 to limit the number of coho salmon harvested.

The management objective for the Fish Creek personal use fishery is to allow escapement of sockeye salmon along the entire course of the return while harvesting fish in excess of spawning needs. There are no specific management objectives for the personal use eulachon fishery. All fisheries are managed to provide sustained yield.

Management of Fish Creek sockeye salmon has undergone many changes in conjunction with an observed decline in total escapements in recent years. During the February 2002 BOF meeting, Fish Creek sockeye salmon were designated as a stock of yield concern after demonstrating a chronic inability to meet the escapement goal, 50,000 fish at the time, over the previous five years (Figure 30; Table 45). At the same meeting, an SEG of 20,000–70,000 fish was recommended based on wild fish (pre-hatchery) escapements from 1938–1978 (see Bue and Hasbrouck, *Unpublished*). An action plan was developed, as directed by the BOF in 2002, to modify current land use patterns that may adversely affect fish habitat resource values in the Fish Creek watershed through education, increased community planning involvement, monitoring, and research to increase escapement toward the goal of achieving the SEG. Specific actions recommended for achieving this objective may be found in Sweet et al. (2004). During the February 2011 BOF meeting, the board determined a personal use fishery to be opened when the department projects to exceed 50,000 sockeye.

Litchfield and Willette (2002) found dissolved oxygen and nutrient concentrations similar to levels experienced in the early 1980s, suggesting no relationship to the decline in survival of Fish Creek sockeye salmon. Aggregate survival (hatchery and wild fish) to the smolt life stage was one-quarter the survival rates of other sockeye-producing systems during the late 1980s. Further, wild survival to the smolt stage was lower than hatchery-origin fish. Two plausible explanations

to overall decline in wild stock productivity were identified: 1) a cofferdam at the Big Lake outlet could have reduced productivity of the subpopulation spawning below the dam; and 2) Big Lake Hatchery operations prevented sockeye salmon from entering Meadow Creek above the hatchery in an effort to reduce potential spread of disease (Litchfield and Willette 2002). The cofferdam was removed in 2004 in an attempt to improve passage of fry into the Lake (Hasbrouck and Edmundson 2007). The Fish Creek stock was reevaluated at the 2005 BOF meeting where it was determined to no longer be a stock of yield concern. The Fish Creek personal use fishery was not opened 2001–2008,

The BOF established the Skwentna River personal use salmon fishery in March 1996. As a result of actions by the State of Alaska Supreme Court and the BOF, it was reinstated as the Upper Yentna River subsistence salmon fishery beginning in 1998. The open season for this subsistence fishery is July 15 through July 31, from 4:00 a.m. until 8:00 p.m. on Mondays, Wednesdays, and Fridays. During the February 2011 meeting, the Board of Fisheries determined 400–750 salmon, other than Chinook salmon are reasonably necessary for subsistence uses in the Yentna River drainage.

Regulations for a Tyonek subsistence fishery were established in 1980. Participants are allowed to harvest all salmon species. Residents of Tyonek are the major participants in the fishery. The season starts on May 15 and continues through October 15. The fishery is open May 15–June 15 on Tuesdays, Thursdays, and Fridays, from 4:00 a.m.–8 p.m. From June 16 through October 15, fishing shifts to Saturdays only. This fishery is prosecuted by gillnet 10 fathoms in length by 45 meshes deep, with six inch mesh. During the February 2011 meeting the Board determined 700–2,700 Chinook salmon and 150–500 salmon, other than Chinook salmon, are reasonably necessary for the subsistence use in the Tyonek Subdistrict.

FISHERY PERFORMANCE AND ESCAPEMENT IN 2011 AND 2012

With runs projecting to exceed the upper end of the escapement goal, the personal use fishery on Fish Creek was opened for the first time since 2001 and again in 2009–2011 due to strong returns to the Fish Creek system as measured by the Fish Creek weir. The total weir count in 2011 and 2012 was 66,678 and 18,823 fish, respectively (Table 45). The Fish Creek personal use dip net fishery was opened in 2011 with projections exceeding 50,000 sockeye. The fishery was open to the retention of salmon except Chinook. In 2011 personal use harvest was 5,190 fish (Table 60) and the dip net fishery was open three days, July 29–July 31, from 6AM to 11PM. Contributions of hatchery fish to the Fish Creek escapement are estimated to be 17% for 2012, and have ranged from 2% in 2002 to 73% in 2006 (Table 65).

Average annual harvest in the upper Yentna River subsistence fishery was 520 salmon from 1996–2011 (Table 63). Average harvest per permit holder was 26 fish over the same period. Sockeye salmon are the target species, although some coho, pink, and chum salmon are also harvested. No Chinook salmon harvest is allowed. A total of 384 salmon were harvested in 2012.

Chinook salmon dominate the harvest in the Tyonek subsistence fishery, with a smaller harvest of coho and sockeye salmon. Few pink and chum salmon are harvested. From 1981–2011, the average number of permits issued was 74 (Table 64). The total salmon harvest in 2011 was 789 fish and 1,160 fish in 2012.

The 2011 NCIMA estimated eulachon harvest was 6,763 fish, all from the Susitna River (Table 61). No eulachon were reported harvested in the KAMU. It should be noted that no reported

harvest has occurred in the past. This most likely only indicates low fishery participation, which makes it difficult to estimate harvest through the SWHS which surveys anglers randomly. The 2007–2011 average harvest in the WSMU was 3,500 eulachon. Inseason observations of run strength by staff in 2011 and 2012 indicate good returns. The eulachon harvest in 2012 of 3,290 was just under the 2007–2011 average of 3,500 fish.

EDUCATIONAL FISHERIES

FISHERY DESCRIPTION

The first educational fishery, the 1989 Kenaitze Tribal fishery (on the Kenai Peninsula), originated as a Federal Court-ordered subsistence fishery resulting from extensive legislation and litigation related to both state and federal interpretation of subsistence. Prior to the 1993 fishing season the Alaska Superior Court, in negotiations with ADF&G and the Kenaitze Tribe, ordered the department to issue educational fishing permits.

The Knik Tribal Council and the Native Village of Eklutna were first issued permits for the 1994 season. These educational fisheries, originally ordered as interim fisheries until the court cases were decided, have been applied for and renewed by the department annually. The Tyonek Subsistence Camp was issued permits from 1998 to 2000. More recently, an additional educational fishery was added in NCIMA, the McLaughlin Youth. Educational fishery permits were issued to the Big Lake Cultural Outreach Program in 2005–2012 and one permit was issued to the Intertribal Native Leadership group in 2006. The current educational fisheries are limited to certain areas and periods of operation as described in the following Fishery Management and Objectives section. In general the Eklutna and Knik villages fish waters adjacent to their respective community. Educational fishing also takes place along the north shores of Goose Bay and Pt. MacKenzie and on Fire Island.

HISTORICAL HARVEST

The total salmon harvest by the Knik Tribal Council educational fishery averaged 254 fish annually from 1994–2012 (Table 66). The Eklutna Native Village educational fishery harvested an average of 334 salmon annually during the same period.

FISHERY MANAGEMENT AND OBJECTIVES

The objective of this fishery is to implement the provisions of the permit. Standards, general conditions, and requirements of an educational fishery program were established by the BOF and are administered under Chapter 93 of the Alaska Administrative Code (5 AAC 93.200–235). The open fishing season is from May 1 to September 30. The fishery can take place at the discretion of the permit holder except in the Fish Creek Terminal Harvest Area during commercial fishery openings and on Mondays or Thursdays when commercial openings are scheduled in the Northern District between Point MacKenzie and the Little Susitna River and adjacent to Fire Island. Otherwise, the fishery may be prosecuted in waters of the Northern District between Point Mackenzie and Little Susitna River and adjacent to Fire Island, and in waters within 1 mile of average high water on the western shore of Knik Arm from the Goose Bay airstrip beach access road boat launch located on the north shore of Goose Bay to Fish Creek. The educational fishery may not occur in the tidal channel of Fish Creek or in Fish Creek. Permits are issued on an annual basis and must be renewed each year. Permit holders must submit a postseason summary to ADF&G as indicated in the specifications. A failure to meet specifications will

result in nonrenewal of a permit. Council and Tribal objectives for the educational fisheries include teaching and preserving the cultural and traditional subsistence way of life as well as providing food for elders and others in need.

Reports on the educational program, as required by each permit, have been submitted annually to the NCIMA biologist and compiled in the Area Management Report. Educational fishery salmon harvests are minimal and they do not affect inriver sport fisheries.

FISHERY PERFORMANCE AND ESCAPEMENT IN 2011–2012

The Knik Tribal Council educational fishery salmon harvest in 2011 was 70 fish and in 2012 they harvested 58 fish. Sockeye salmon were the predominate species, with 61 fish harvested in 2011 and 88 fish harvested in 2012 (Table 66).

The educational fishery conducted by Eklutna Native Village harvested 704 salmon in 2011 and 533 salmon in 2012. Sockeye salmon was the primary species in their harvest with 343 fish in 2011 and coho as the primary catch in 2012 with 242 fish (Table 66).

The Big Lake Cultural Outreach educational fishery began in 2005. In its first year, the group harvested a total of 348 salmon, with coho salmon (99 fish) and sockeye salmon (98 fish) comprising over half of their harvest (Table 66). In 2012, this educational fishery did not fish.

The McLaughlin educational fishery was new in 2012. Due to conservation concerns for coho the 2012 permit was revoked (Table 66).

Due to low Chinook abundance, the Tyonek Village permit was not issued in 2012.

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TABLES

Table 1.—Number of angler-days of sport fishing effort expended by recreational anglers fishing Northern Cook Inlet Management Area waters, 1977–2012.

| Year | Knik Arm | | Eastside Susitna | | Westside Susitna | | West Cook Inlet ^a | | NCIMA | Alaska | % by | Region II | % by |
|------|----------|---------|------------------|---------|------------------|---------|------------------------------|---------|---------|-----------|-------|-----------|-------|
| | Effort | % NCIMA | Effort | % NCIMA | Effort | % NCIMA | Effort | % NCIMA | Total | Total | NCIMA | Total | NCIMA |
| 1977 | 81,949 | 48 | 56,651 | 33 | 29,211 | 17 | 2,735 | 2 | 170,546 | 1,198,486 | 14 | 828,351 | 21 |
| 1978 | 75,540 | 38 | 86,010 | 43 | 35,709 | 18 | 2,262 | 1 | 199,521 | 1,285,063 | 16 | 913,417 | 22 |
| 1979 | 78,411 | 38 | 78,222 | 38 | 48,362 | 23 | 2,012 | 1 | 207,007 | 1,364,739 | 15 | 1,014,018 | 20 |
| 1980 | 102,530 | 42 | 91,277 | 38 | 46,768 | 19 | 1,357 | 1 | 241,932 | 1,488,962 | 16 | 1,072,384 | 23 |
| 1981 | 105,052 | 52 | 59,854 | 30 | 35,072 | 17 | 2,263 | 1 | 202,241 | 1,420,172 | 14 | 1,016,731 | 20 |
| 1982 | 91,713 | 41 | 80,745 | 36 | 50,738 | 23 | 1,126 | 1 | 224,322 | 1,623,090 | 14 | 1,131,358 | 20 |
| 1983 | 138,389 | 50 | 67,471 | 24 | 63,919 | 23 | 6,237 | 2 | 276,016 | 1,732,528 | 16 | 1,212,680 | 23 |
| 1984 | 130,727 | 46 | 81,758 | 29 | 61,263 | 22 | 7,512 | 3 | 281,260 | 1,866,837 | 15 | 1,341,658 | 21 |
| 1985 | 122,626 | 43 | 67,764 | 24 | 77,092 | 27 | 16,455 | 6 | 283,937 | 1,943,069 | 15 | 1,406,419 | 20 |
| 1986 | 131,606 | 40 | 92,289 | 28 | 87,736 | 27 | 13,537 | 4 | 325,168 | 2,071,412 | 16 | 1,518,712 | 21 |
| 1987 | 140,167 | 44 | 77,817 | 24 | 84,448 | 26 | 16,247 | 5 | 318,679 | 2,152,886 | 15 | 1,556,050 | 20 |
| 1988 | 183,029 | 46 | 107,977 | 27 | 95,339 | 24 | 11,875 | 3 | 398,220 | 2,311,291 | 17 | 1,679,939 | 24 |
| 1989 | 146,912 | 41 | 96,864 | 27 | 96,308 | 27 | 14,851 | 4 | 354,935 | 2,264,079 | 16 | 1,583,381 | 22 |
| 1990 | 142,884 | 41 | 101,917 | 29 | 92,435 | 26 | 14,392 | 4 | 351,628 | 2,453,284 | 14 | 1,745,110 | 20 |
| 1991 | 146,605 | 39 | 113,178 | 30 | 104,072 | 28 | 13,336 | 4 | 377,191 | 2,456,328 | 15 | 1,782,055 | 21 |
| 1992 | 141,825 | 35 | 149,484 | 37 | 101,496 | 25 | 11,000 | 3 | 403,805 | 2,540,374 | 16 | 1,889,930 | 21 |
| 1993 | 118,214 | 32 | 128,382 | 35 | 106,724 | 29 | 17,993 | 5 | 371,313 | 2,559,408 | 15 | 1,867,233 | 20 |
| 1994 | 143,372 | 38 | 114,533 | 30 | 106,112 | 28 | 15,950 | 4 | 379,967 | 2,719,911 | 14 | 1,966,985 | 19 |
| 1995 | 126,154 | 42 | 102,686 | 34 | 60,177 | 20 | 12,557 | 4 | 301,574 | 2,787,670 | 11 | 1,985,539 | 15 |
| 1996 | 90,990 | 40 | 83,227 | 36 | 42,717 | 19 | 12,146 | 5 | 229,080 | 2,006,528 | 11 | 1,434,943 | 16 |
| 1997 | 95,730 | 39 | 85,228 | 35 | 50,366 | 21 | 11,218 | 5 | 242,542 | 2,079,514 | 12 | 1,400,983 | 17 |
| 1998 | 78,218 | 35 | 89,014 | 40 | 44,931 | 20 | 10,019 | 5 | 222,182 | 1,856,976 | 12 | 1,258,482 | 18 |
| 1999 | 112,642 | 34 | 133,310 | 40 | 74,374 | 22 | 14,402 | 4 | 334,728 | 2,499,152 | 13 | 1,659,966 | 20 |
| 2000 | 121,601 | 33 | 141,609 | 38 | 88,503 | 24 | 18,483 | 5 | 370,196 | 2,627,805 | 14 | 1,844,824 | 20 |
| 2001 | 111,027 | 35 | 121,039 | 38 | 73,885 | 23 | 14,205 | 4 | 320,156 | 2,261,941 | 14 | 1,560,562 | 21 |
| 2002 | 126,194 | 39 | 116,254 | 36 | 63,286 | 20 | 16,335 | 5 | 322,069 | 2,259,091 | 14 | 1,569,513 | 21 |
| 2003 | 103,978 | 35 | 112,061 | 37 | 66,882 | 22 | 16,927 | 6 | 299,848 | 2,219,398 | 14 | 1,535,501 | 20 |
| 2004 | 113,528 | 36 | 107,689 | 35 | 72,721 | 23 | 17,809 | 6 | 311,747 | 2,473,961 | 13 | 1,709,671 | 18 |
| 2005 | 115,763 | 39 | 87,893 | 29 | 73,971 | 25 | 20,459 | 7 | 298,086 | 2,463,929 | 12 | 1,712,610 | 17 |
| 2006 | 119,795 | 41 | 85,029 | 29 | 73,700 | 25 | 15,771 | 5 | 294,295 | 2,297,961 | 13 | 1,605,852 | 18 |
| 2007 | 120,681 | 40 | 87,177 | 29 | 70,923 | 24 | 19,705 | 7 | 298,486 | 2,543,674 | 12 | 1,799,352 | 17 |
| 2008 | 136,572 | 48 | 85,755 | 30 | 47,061 | 16 | 16,627 | 6 | 286,015 | 2,315,601 | 12 | 1,622,920 | 18 |

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Table 1.–Page 2 of 2.

| Year | Knik Arm | | Eastside Susitna | | Westside Susitna | | West Cook Inlet ^a | | NCIMA | Alaska | % by | Region II | % by |
|-----------|----------|---------|------------------|---------|------------------|---------|------------------------------|---------|---------|-----------|-------|-----------|-------|
| | Effort | % NCIMA | Effort | % NCIMA | Effort | % NCIMA | Effort | % NCIMA | Total | Total | NCIMA | Total | NCIMA |
| 2009 | 122,508 | 48 | 72,109 | 29 | 43,273 | 17 | 14,948 | 6 | 252,838 | 2,216,445 | 11 | 1,522,345 | 17 |
| 2010 | 106,281 | 46 | 63,025 | 27 | 48,298 | 21 | 14,512 | 6 | 232,116 | 2,000,167 | 12 | 1,371,492 | 17 |
| 2011 | 54,791 | 34 | 56,121 | 35 | 40,657 | 25 | 10,184 | 6 | 161,753 | 1,919,313 | 8 | 1,326,950 | 12 |
| 2012 | 58,673 | 37 | 50,521 | 32 | 40,255 | 25 | 10,682 | 6 | 160,131 | 1,885,786 | 8 | 1,252,263 | 13 |
| Average | | | | | | | | | | | | | |
| 1977–2011 | 116,514 | 40 | 93,755 | 32 | 67,387 | 23 | 12,213 | 4 | 289,869 | 2,122,316 | 14 | 1,498,512 | 19 |
| 2002–2011 | 112,727 | 39 | 94,647 | 33 | 63,597 | 22 | 16,330 | 6 | 287,300 | 2,299,941 | 12 | 1,598,466 | 18 |
| 2007–2011 | 108,167 | 43 | 72,837 | 30 | 50,042 | 21 | 15,195 | 6 | 246,242 | 2,199,040 | 11 | 1,528,612 | 16 |

Source: Statewide Harvest Survey estimates (Mills 1979-1980, 1981a-b, 1982-1994, Howe et al. 1995,1996, 2001a-d; Walker et al. 2003 Jennings et al. 2004, 2006a-b; 2007, 2009a, 2009b, 2010a-b, 2011-b, In prep; Jennings et al. 2006a; Jennings et al. 2006b; Romberg et al. In prep.)

^a Data include saltwater effort from outside the North Cook Inlet Management Area, as reported in the Statewide Fishing Survey.

Table 2.—Angler-days of sport fishing effort for the Knik Arm drainage by fishery, 1977–2012.

| Year | Marine | Little Susitna River | Knik River ^a | Eklutna Tailrace | Wasilla Creek | Cottonwood Creek | Big Lake drainage streams | Finger Lake | Kepler Lk Complex | Big Lake | Nancy Lk Complex | Other lakes ^b | Other streams | Total |
|------|--------|----------------------|-------------------------|------------------|---------------|------------------|---------------------------|-------------|-------------------|----------|------------------|--------------------------|---------------|---------|
| 1977 | | 11,063 | | | 2,805 | | | 14,864 | 7,962 | 11,869 | 7,259 | 26,127 | | 81,949 |
| 1978 | | 12,127 | | | 3,446 | | | 11,502 | 5,730 | 9,865 | 7,647 | 25,223 | | 75,540 |
| 1979 | | 21,301 | | | 4,024 | 5,345 | | 4,433 | 5,439 | 8,300 | 7,011 | 22,558 | | 78,411 |
| 1980 | | 22,420 | | | 5,726 | 9,268 | | 6,483 | 8,597 | 12,195 | 9,153 | 28,688 | | 102,530 |
| 1981 | | 26,162 | 4,904 | | 4,019 | 8,663 | | 5,267 | 8,227 | 14,568 | 8,488 | 24,754 | | 105,052 |
| 1982 | | 24,020 | 6,653 | | 6,261 | 5,186 | | 3,514 | 6,943 | 15,371 | 8,615 | 15,150 | | 91,713 |
| 1983 | 17,127 | 35,477 | 9,183 | | 3,239 | 5,944 | | 8,512 | 9,149 | 15,989 | 10,907 | 19,571 | 3,291 | 138,389 |
| 1984 | 4,316 | 48,517 | 9,369 | 3,413 | 3,547 | 7,144 | | 6,843 | 9,770 | 12,916 | 7,194 | 15,892 | 1,806 | 130,727 |
| 1985 | 692 | 41,643 | 8,970 | 2,995 | 3,115 | 4,560 | 903 | 4,259 | 9,226 | 16,299 | 5,960 | 22,243 | 1,761 | 122,626 |
| 1986 | 983 | 45,770 | 13,015 | 8,549 | 3,387 | 5,653 | 2,641 | 5,589 | 9,544 | 14,559 | 6,520 | 13,147 | 2,249 | 131,606 |
| 1987 | 1,974 | 35,659 | 6,990 | 11,663 | 2,173 | 2,934 | 2,898 | 10,830 | 14,379 | 17,693 | 15,125 | 16,187 | 1,662 | 140,167 |
| 1988 | 1,239 | 49,731 | 23,229 | 13,188 | 2,228 | 4,056 | 3,110 | 8,240 | 18,245 | 10,077 | 12,099 | 35,159 | 2,428 | 183,029 |
| 1989 | 2,352 | 54,798 | 11,141 | 10,342 | 2,406 | 3,069 | 4,204 | 4,840 | 12,821 | 12,748 | 8,349 | 19,024 | 818 | 146,912 |
| 1990 | 2,494 | 40,159 | 17,878 | 7,618 | 2,679 | 3,056 | 3,936 | 6,737 | 13,644 | 11,798 | 9,973 | 19,949 | 2,963 | 142,884 |
| 1991 | 3,147 | 50,838 | 13,736 | 5,892 | 2,893 | 1,623 | 3,693 | 5,998 | 11,337 | 13,759 | 10,239 | 20,043 | 3,407 | 146,605 |
| 1992 | 1,540 | 49,304 | 8,856 | 4,279 | 1,110 | 1,974 | 4,534 | 5,506 | 15,556 | 11,545 | 12,299 | 24,723 | 599 | 141,825 |
| 1993 | 2,116 | 42,249 | 6,824 | 4,523 | 1,774 | 3,077 | 2,976 | 7,843 | 7,461 | 8,446 | 9,393 | 20,606 | 926 | 118,214 |
| 1994 | 1,244 | 45,149 | 9,658 | 8,974 | 2,226 | 3,230 | 3,496 | 9,434 | 11,832 | 9,987 | 10,197 | 25,063 | 2,882 | 143,372 |
| 1995 | 940 | 41,119 | 10,893 | 11,453 | 1,373 | 2,598 | 2,256 | 7,814 | 10,885 | 6,979 | 9,723 | 18,928 | 1,193 | 126,154 |
| 1996 | 966 | 24,575 | 7,561 | 6,448 | 1,386 | 1,783 | 934 | 8,962 | 7,431 | 7,290 | 5,140 | 17,464 | 1,050 | 90,990 |
| 1997 | 672 | 27,883 | 5,349 | 3,835 | 1,188 | 2,070 | 1,104 | 7,242 | 8,139 | 9,644 | 7,275 | 19,944 | 1,385 | 95,730 |
| 1998 | 952 | 22,108 | 5,272 | 5,100 | 1,171 | 3,454 | 2,256 | 4,286 | 6,500 | 6,143 | 4,861 | 15,729 | 386 | 78,218 |
| 1999 | 250 | 30,437 | 6,860 | 6,150 | 990 | 3,506 | 2,182 | 8,076 | 9,149 | 8,418 | 7,899 | 26,981 | 1,744 | 112,642 |
| 2000 | 447 | 39,556 | 10,975 | 7,938 | 328 | 1,265 | 1,408 | 7,786 | 8,708 | 7,587 | 8,670 | 25,519 | 1,414 | 121,601 |
| 2001 | 622 | 33,521 | 13,028 | 10,166 | 419 | 2,627 | 1,670 | 6,902 | 8,439 | 5,555 | 6,789 | 20,831 | 458 | 111,027 |
| 2002 | 1,218 | 40,346 | 17,989 | 11,767 | 1,037 | 1,534 | 2,776 | 7,094 | 6,108 | 5,176 | 5,659 | 24,612 | 878 | 126,194 |
| 2003 | 435 | 31,993 | 13,474 | 8,423 | 757 | 2,238 | 1,182 | 5,096 | 6,470 | 5,226 | 6,653 | 21,267 | 764 | 103,978 |
| 2004 | 184 | 33,819 | 19,342 | 9,588 | 1,079 | 3,282 | 2,029 | 4,713 | 6,958 | 4,430 | 5,501 | 21,954 | 649 | 113,528 |
| 2005 | 802 | 27,490 | 19,605 | 19,339 | 684 | 1,484 | 1,461 | 5,514 | 4,719 | 6,481 | 4,391 | 22,989 | 804 | 115,763 |
| 2006 | 323 | 28,547 | 25,271 | 20,465 | 869 | 3,867 | 948 | 6,055 | 5,684 | 5,616 | 7,279 | 14,225 | 646 | 119,795 |
| 2007 | 590 | 35,636 | 21,342 | 22,619 | 1,194 | 3,448 | 907 | 3,229 | 3,926 | 5,261 | 5,053 | 16,087 | 1,389 | 120,681 |
| 2008 | 325 | 31,989 | 27,874 | 20,586 | 1,394 | 2,718 | 1,343 | 7,715 | 8,264 | 7,326 | 4,958 | 21,426 | 654 | 136,572 |

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Table 2.–Page 2 of 2.

| Year | Marine | Little Susitna River | Knik River ^a | Eklutna Tailrace | Wasilla Creek | Cottonwood Creek | Big Lake drainage streams | Finger Lake | Kepler Lk Complex | Big Lake | Nancy Lk Complex | Other lakes ^b | Other streams | Total |
|-----------|--------|----------------------|-------------------------|------------------|---------------|------------------|---------------------------|-------------|-------------------|----------|------------------|--------------------------|---------------|---------|
| 2009 | 159 | 28,151 | 23,925 | 22,625 | 1,619 | 2,679 | 2,092 | 6,821 | 6,881 | 3,415 | 6,081 | 17,395 | 665 | 122,508 |
| 2010 | 124 | 24,846 | 16,140 | 14,708 | 2,354 | 2,064 | 2,966 | 4,821 | 5,594 | 4,369 | 8,736 | 18,867 | 692 | 106,281 |
| 2011 | 139 | 12,779 | 9,810 | 5,972 | 1,300 | 1,736 | 970 | 4,338 | 5,899 | 3,080 | 4,377 | 3,633 | 758 | 54,791 |
| Average | | | | | | | | | | | | | | |
| 1977–2011 | 1,668 | 33,462 | 13,068 | 10,308 | 2,177 | 3,550 | 2,255 | 6,776 | 8,732 | 9,428 | 7,871 | 20,627 | 1,390 | 116,514 |
| 2002–2011 | 447 | 30,723 | 18,231 | 14,516 | 1,086 | 2,412 | 1,646 | 5,840 | 6,471 | 5,294 | 6,179 | 19,596 | 814 | 112,727 |
| 2007–2011 | 304 | 29,834 | 22,910 | 17,302 | 1,572 | 2,529 | 1,656 | 5,385 | 6,113 | 4,690 | 5,841 | 15,482 | 832 | 108,167 |
| 2012 | | 10,115 | 7,474 | 5,475 | 506 | 884 | 1,343 | 2,439 | 3,161 | 4,151 | 3,096 | 19,596 | 433 | 58,673 |

Source: Statewide Harvest Survey estimates (Mills 1979-1980, 1981a-b, 1982-1994, Howe et al. 1995,1996, 2001a-d; Walker et al. 2003 Jennings et al. 2004, 2006a-b; 2007, 2009a, 2009b, 2010a-b, 2011-b, *In prep*; Jennings et al. 2006a; Jennings et al. 2006b; Romberg et al. *In prep*.)

^a Knik River and tributaries including Jim Creek.

^b Includes effort for lakes and streams, 1977-1982.

Table 3.—Angler-days of sport fishing effort for the Eastside Susitna River drainage by fishery, 1977–2012.

| Year | Willow Creek | Little Willow | Kashwitna River | Caswell Creek | Sheep Creek | Goose Creek | Montana Creek | Birch Creek | Sunshine Creek | Talkeetna River ^a | Other Streams ^b | Lakes | Total |
|------|--------------|---------------|-----------------|---------------|-------------|-------------|---------------|-------------|----------------|------------------------------|----------------------------|--------|---------|
| 1977 | 14,024 | 4,583 | | | 8,112 | | 14,268 | | | 3,163 | | 12,501 | 56,651 |
| 1978 | 22,682 | 5,687 | | | 11,869 | | 25,762 | | | 5,040 | | 14,970 | 86,010 |
| 1979 | 18,911 | 5,171 | | 3,710 | 6,728 | | 22,621 | | 3,317 | 5,125 | | 12,639 | 78,222 |
| 1980 | 29,011 | 8,190 | | 4,963 | 8,014 | | 19,287 | | 5,208 | 4,388 | | 12,216 | 91,277 |
| 1981 | 14,060 | 3,845 | | 3,860 | 6,936 | | 16,657 | | 3,062 | 3,584 | | 7,850 | 59,854 |
| 1982 | 19,704 | 5,579 | | 5,101 | 9,093 | | 23,645 | | 3,787 | 3,856 | | 9,980 | 80,745 |
| 1983 | 13,405 | 2,791 | 1,344 | 5,048 | 6,237 | | 17,109 | | 3,429 | 7,564 | 5,460 | 5,084 | 67,471 |
| 1984 | 21,649 | 5,872 | 2,995 | 4,952 | 6,106 | 1,305 | 19,239 | | 3,229 | 9,252 | 4,417 | 2,742 | 81,758 |
| 1985 | 16,282 | 5,705 | | 5,289 | 2,844 | | 20,028 | | 4,144 | 7,213 | 4,162 | 2,097 | 67,764 |
| 1986 | 10,733 | 4,490 | 2,908 | 4,362 | 10,091 | 1,993 | 20,268 | 2,010 | 8,124 | 8,638 | 10,566 | 8,106 | 92,289 |
| 1987 | 13,583 | 5,850 | 2,717 | 3,332 | 9,019 | 1,865 | 13,745 | 2,046 | 3,912 | 17,096 | 2,101 | 2,551 | 77,817 |
| 1988 | 27,758 | 10,768 | 1,454 | 4,529 | 18,699 | 2,947 | 16,498 | 2,074 | 4,129 | 12,733 | 3,648 | 2,740 | 107,977 |
| 1989 | 23,811 | 5,285 | 6,320 | 4,029 | 13,010 | 3,058 | 16,179 | 767 | 4,592 | 15,218 | 1,907 | 2,688 | 96,864 |
| 1990 | 32,200 | 6,505 | 2,313 | 6,103 | 11,392 | 3,714 | 11,284 | | 4,485 | 18,299 | 3,287 | 2,335 | 101,917 |
| 1991 | 32,520 | 7,792 | 1,981 | 7,816 | 14,872 | 2,811 | 10,745 | 1,056 | 5,788 | 18,466 | 6,172 | 3,159 | 113,178 |
| 1992 | 50,958 | 9,240 | 2,177 | 6,391 | 17,509 | 4,908 | 18,437 | 1,366 | 4,833 | 21,478 | 6,347 | 5,840 | 149,484 |
| 1993 | 41,218 | 6,422 | 1,600 | 5,033 | 12,636 | 3,423 | 21,615 | 655 | 4,094 | 22,580 | 5,161 | 3,945 | 128,382 |
| 1994 | 34,362 | 6,744 | 1,957 | 5,842 | 11,526 | 3,300 | 16,220 | 1,092 | 4,265 | 18,642 | 6,134 | 4,449 | 114,533 |
| 1995 | 29,392 | 6,386 | 1,460 | 3,912 | 9,758 | 1,993 | 16,303 | 826 | 2,756 | 19,358 | 6,019 | 4,523 | 102,686 |
| 1996 | 23,508 | 5,890 | 1,140 | 1,473 | 8,112 | 1,796 | 13,485 | 506 | 3,028 | 18,386 | 2,907 | 2,996 | 83,227 |
| 1997 | 21,511 | 5,829 | 1,916 | 1,317 | 9,172 | 3,151 | 14,111 | 525 | 1,585 | 18,133 | 3,765 | 4,213 | 85,228 |
| 1998 | 23,920 | 4,987 | 1,663 | 2,983 | 9,716 | 2,510 | 14,952 | 1,063 | 2,374 | 16,713 | 5,130 | 3,003 | 89,014 |
| 1999 | 37,384 | 8,596 | 2,004 | 2,764 | 17,188 | 3,561 | 22,382 | 1,226 | 3,805 | 21,988 | 7,299 | 5,113 | 133,310 |
| 2000 | 44,648 | 9,028 | 2,331 | 4,385 | 12,660 | 3,266 | 26,070 | 1,426 | 5,487 | 21,324 | 5,744 | 5,240 | 141,609 |
| 2001 | 34,979 | 7,059 | 2,320 | 2,637 | 11,742 | 2,339 | 22,454 | 1,065 | 1,955 | 21,590 | 8,440 | 4,459 | 121,039 |
| 2002 | 31,997 | 7,189 | 2,648 | 2,562 | 12,853 | 2,845 | 22,008 | 446 | 3,192 | 21,548 | 4,870 | 4,096 | 116,254 |
| 2003 | 29,668 | 4,815 | 5,028 | 3,018 | 12,878 | 2,965 | 20,794 | 666 | 3,616 | 19,335 | 4,387 | 4,891 | 112,061 |
| 2004 | 26,722 | 5,031 | 1,906 | 902 | 10,310 | 2,645 | 22,860 | 881 | 2,820 | 19,632 | 8,161 | 5,819 | 107,689 |
| 2005 | 24,181 | 6,566 | 1,626 | 2,395 | 8,521 | 2,039 | 16,083 | 1,356 | 4,089 | 16,172 | 1,902 | 2,963 | 87,893 |
| 2006 | 21,927 | 4,536 | 2,489 | 1,767 | 9,437 | 2,593 | 19,657 | 779 | 3,732 | 13,043 | 2,800 | 2,269 | 85,029 |
| 2007 | 22,139 | 7,126 | 1,099 | 1,260 | 10,156 | 621 | 18,111 | 414 | 3,098 | 18,025 | 2,947 | 2,181 | 87,177 |
| 2008 | 17,953 | 8,213 | 5,634 | 1,524 | 8,574 | 1,895 | 16,174 | 964 | 4,153 | 14,392 | 2,687 | 3,592 | 85,755 |

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Table 3.–Page 2 of 2.

| Year | Willow Creek | Little Willow | Kashwitna River | Caswell Creek | Sheep Creek | Goose Creek | Montana Creek | Birch Creek | Sunshine Creek | Talkeetna River ^a | Other Streams ^b | Lakes | Total |
|---------------|--------------|---------------|-----------------|---------------|-------------|-------------|---------------|-------------|----------------|------------------------------|----------------------------|-------|--------|
| 2009 | 19,019 | 4,105 | 3,897 | 1,859 | 9,248 | 1,640 | 14,084 | 698 | 1,749 | 10,669 | 2,322 | 2,819 | 72,109 |
| 2010 | 12,487 | 3,562 | 1,614 | 2,524 | 7,042 | 1,051 | 10,931 | 1,025 | 2,009 | 11,952 | 3,782 | 5,046 | 63,025 |
| 2011 | 10,949 | 1,282 | 3,444 | 822 | 5,868 | 717 | 8,644 | 578 | 1,314 | 11,212 | 8,530 | 2,761 | 56,121 |
| 2012 | 9,763 | 1,609 | 704 | 546 | 3,877 | 994 | 9,303 | 1,230 | 1,337 | 11,502 | 6,738 | 2,918 | 50,521 |
| 1977-2011 Ave | 24,836 | 6,021 | 2,499 | 3,590 | 10,227 | 2,480 | 17,792 | 1,020 | 3,672 | 14,166 | 4,864 | 5,196 | 93,755 |
| 2002-2011 Ave | 22,911 | 5,408 | 2,882 | 1,934 | 9,694 | 1,941 | 17,436 | 807 | 2,884 | 16,143 | 4,621 | 3,718 | 90,377 |
| 2007-2011 Ave | 18,705 | 4,858 | 3,138 | 1,598 | 8,178 | 1,185 | 13,589 | 736 | 2,465 | 13,250 | 4,054 | 3,280 | 72,837 |

Source: Statewide Harvest Survey estimates (Mills 1979-1980, 1981a-b, 1982-1994, Howe et al. 1995,1996, 2001a-d; Walker et al. 2003 Jennings et al. 2004, 2006a-b; 2007, 2009a, 2009b, 2010a-b, 2011-b, *In prep*; Jennings et al. 2006a; Jennings et al. 2006b; Romberg et al. *In prep*.)

^a Including Clear Creek.

^b Include angler days from the Susitna River.

Table 4.—Angler-days of sport fishing effort for the Westside Susitna River drainage by fishery, 1977–2012.

| Year | Alexander Creek | Deshka River | Rabideux Creek | Moose Creek | Yentna River | Peters Creek | Lake Creek | Fish Creek ^a | Talachulitna River | Judd Lake | Shell Lake | Whiskey Lake | Hewitt Lake | Other Streams ^b | Other Lakes ^b | Total |
|------|--------------------|-----------------|-------------------|----------------|-----------------|-----------------|---------------|----------------------------|-----------------------|--------------|---------------|-----------------|----------------|-------------------------------|-----------------------------|---------|
| 1977 | 5,991 | 3,852 | | | | | 6,946 | | 1,342 | 317 | 566 | 287 | 436 | 7,269 | 2,205 | 29,211 |
| 1978 | 6,914 | 9,111 | | | | | 8,767 | | 732 | 151 | 302 | 129 | 172 | 6,011 | 3,420 | 35,709 |
| 1979 | 8,284 | 13,236 | | | | | 13,881 | | 2,185 | 519 | 263 | 189 | 613 | 7,577 | 1,615 | 48,362 |
| 1980 | 6,812 | 19,364 | | | | | 8,325 | | 2,542 | 814 | 414 | 29 | 471 | 4,998 | 2,999 | 46,768 |
| 1981 | 6,892 | 13,248 | | | | | 6,471 | | 1,378 | | | | | 4,963 | 2,120 | 35,072 |
| 1982 | 10,748 | 18,391 | | | | | 8,649 | | 1,911 | | 444 | 171 | | 7,012 | 3,412 | 50,738 |
| 1983 | 9,425 | 23,174 | | | | | 14,749 | | 4,566 | 155 | 913 | | | 6,284 | 4,653 | 63,919 |
| 1984 | 7,261 | 20,561 | | | | 786 | 14,739 | | 3,848 | 1,255 | | | | 9,652 | 3,161 | 61,263 |
| 1985 | 12,884 | 29,322 | | | | | 14,323 | | 1,682 | | | | | 13,159 | 5,722 | 77,092 |
| 1986 | 19,113 | 29,739 | | 1,193 | | | 15,626 | 3,838 | 2,186 | 963 | | | | 13,753 | 1,325 | 87,736 |
| 1987 | 13,220 | 30,008 | | | | | 16,842 | 6,918 | 3,242 | 2,698 | | | | 9,571 | 1,949 | 84,448 |
| 1988 | 19,591 | 32,160 | | | | 2,001 | 16,007 | 5,784 | 8,040 | 588 | | | | 8,047 | 3,121 | 95,339 |
| 1989 | 14,651 | 39,432 | 550 | 345 | 656 | 914 | 14,061 | 8,035 | 8,698 | 400 | | | | 5,565 | 3,001 | 96,308 |
| 1990 | 19,863 | 32,082 | 1,024 | | 849 | 1,318 | 17,914 | 4,857 | 5,184 | | | | | 5,430 | 3,914 | 92,435 |
| 1991 | 26,235 | 38,011 | 459 | | 1,003 | 2,466 | 14,726 | 3,820 | 6,589 | 544 | | | | 6,560 | 3,659 | 104,072 |
| 1992 | 18,085 | 37,056 | 992 | | 1,985 | 2,198 | 16,869 | 3,873 | 5,153 | | | 800 | | 9,586 | 4,899 | 101,496 |
| 1993 | 21,660 | 30,643 | | | 2,110 | 1,263 | 26,113 | 6,454 | 5,613 | | | | | 10,587 | 2,281 | 106,724 |
| 1994 | 25,608 | 19,267 | | | 3,936 | 1,195 | 27,958 | 7,011 | 7,292 | | | | | 10,113 | 3,732 | 106,112 |
| 1995 | 10,648 | 4,808 | | | 2,728 | 1,465 | 15,808 | 4,729 | 6,354 | | | | | 10,790 | 2,847 | 60,177 |
| 1996 | 6,062 | 5,246 | | | 1,293 | 981 | 12,091 | 2,158 | 5,151 | | | | | 9,735 | | 42,717 |
| 1997 | 7,514 | 5,110 | | | 1,760 | 606 | 16,033 | 3,028 | 5,651 | | | | | 10,664 | | 50,366 |
| 1998 | 6,538 | 11,574 | | | 889 | | 11,260 | 2,618 | 3,224 | | | | | 8,828 | | 44,931 |
| 1999 | 11,187 | 20,088 | | | 3,259 | 536 | 17,991 | 5,107 | 7,680 | | | | | 8,526 | | 74,374 |
| 2000 | 11,733 | 30,997 | | | 5,474 | 1,057 | 21,671 | 3,850 | 6,415 | | | | | 7,306 | | 88,503 |
| 2001 | 9,360 | 23,734 | 417 | | 5,035 | 396 | 20,559 | 4,026 | 5,813 | | | | | 4,429 | 116 | 73,885 |
| 2002 | 10,169 | 20,362 | 737 | | 4,091 | 853 | 14,933 | 3,672 | 3,995 | | | | | 4,010 | 464 | 63,286 |
| 2003 | 6,855 | 24,904 | 520 | | 1,866 | 681 | 19,857 | 3,320 | 4,391 | | | | | 3,614 | 874 | 66,882 |
| 2004 | 5,679 | 28,653 | 894 | 355 | 3,319 | 606 | 20,898 | 3,594 | 3,631 | 344 | 744 | | 110 | 626 | 3,268 | 72,721 |
| 2005 | 3,907 | 26,638 | 365 | 19 | 5,524 | 961 | 21,844 | 3,438 | 4,740 | | 1,082 | | 539 | 3,720 | 1,194 | 73,971 |
| 2006 | 4,337 | 31,015 | 727 | 271 | 6,679 | 620 | 19,801 | 2,084 | 4,455 | 52 | | 53 | 112 | 2,530 | 964 | 73,700 |
| 2007 | 2,666 | 34,659 | 289 | 67 | 5,647 | 1,779 | 13,486 | 981 | 6,704 | 107 | 663 | | 74 | 2,298 | 1,503 | 70,923 |

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Table 4.–Page 2 of 2.

| Year | Alexander Creek | Deshka River | Rabideux Creek | Moose Creek | Yentna River | Peters Creek | Lake Creek | Fish Creek ^a | Talachulitna River | Judd Lake | Shell Lake | Whiskey Lake | Hewitt Lake | Other Streams ^b | Other Lakes ^b | Total |
|-----------|--------------------|-----------------|-------------------|----------------|-----------------|-----------------|---------------|----------------------------|-----------------------|--------------|---------------|-----------------|----------------|-------------------------------|-----------------------------|--------|
| 2008 | 299 | 15,514 | 774 | 0 | 4,778 | 756 | 11,891 | 1,212 | 5,310 | 441 | 194 | 0 | 34 | 1,733 | 4,125 | 47,061 |
| 2009 | 2,660 | 10,532 | 586 | 283 | 3,860 | 1,358 | 12,693 | 1,169 | 3,855 | 18 | 200 | 0 | 198 | 1,432 | 4,429 | 43,273 |
| 2010 | 481 | 17,520 | 752 | 347 | 4,693 | 880 | 10,674 | 878 | 3,460 | 140 | 1,432 | 22 | 151 | 3,485 | 3,383 | 48,298 |
| 2011 | 931 | 13,206 | 386 | 122 | 4,511 | 851 | 11,520 | 92 | 2,482 | 105 | 601 | 0 | 50 | 3,669 | 2,131 | 40,657 |
| 2012 | 560 | 10,987 | 641 | 63 | 4,580 | 234 | 9,129 | 1,240 | 4,305 | 73 | 63 | 218 | 146 | 5,681 | 2,335 | 40,255 |
| Averages | | | | | | | | | | | | | | | | |
| 1977-2011 | 10,122 | 21,806 | 631 | 300 | 3,302 | 1,105 | 15,314 | 3,713 | 4,443 | 534 | 601 | 88 | 289 | 6,672 | 2,750 | 67,387 |
| 2002-2011 | 4,304 | 22,431 | 586 | 183 | 4,546 | 886 | 16,196 | 2,224 | 4,440 | 172 | 702 | 15 | 159 | 2,868 | 2,041 | 61,332 |
| 2007-2011 | 1,407 | 18,286 | 557 | 164 | 4,698 | 1,041 | 12,053 | 866 | 4,362 | 162 | 618 | 6 | 101 | 2,523 | 3,114 | 50,042 |

Source: Statewide Harvest Survey estimates (Mills 1979-1980, 1981a-b, 1982-1994, Howe et al. 1995,1996, 2001a-d; Walker et al. 2003 Jennings et al. 2004, 2006a-b; 2007, 2009a, 2009b, 2010a-b, 2011-b, *In prep*; Jennings et al. 2006a; Jennings et al. 2006b; Romberg et al. *In prep*.)

^a Fish Lake drainage (Yentna River drainage)..

^b May include effort from West Cook Inlet drainage waters..

Table 5.--Angler-days of sport fishing effort for the West Cook Inlet drainage by fishery, 1977-2012.

| Year | Chuitna River | Beluga River | Theodore River | Lewis River | Kustatan River | Polly Creek | Susitna R.-N. Foreland | South of N. Foreland | Big River Lakes ^a | Polly Cr., Crescent R. Beach | Other | Total |
|------|---------------|--------------|----------------|-------------|----------------|-------------|------------------------|----------------------|------------------------------|------------------------------|-------|--------|
| 1977 | 1,355 | | 1,037 | 343 | | | | | | | | 2,735 |
| 1978 | 1,185 | | 905 | 172 | | | | | | | | 2,262 |
| 1979 | 1,069 | | 912 | 31 | | | | | | | | 2,012 |
| 1980 | 614 | | 700 | 43 | | | | | | | | 1,357 |
| 1981 | 1,364 | | 899 | | | | | | | | | 2,263 |
| 1982 | 751 | | 375 | | | | | | | | | 1,126 |
| 1983 | 4,290 | | 448 | | 1,499 | | | | | | | 6,237 |
| 1984 | 2,342 | | 3,497 | | 1,673 | | | | | | | 7,512 |
| 1985 | 3,381 | | 5,601 | 1,023 | 4,335 | | | | | 2,115 | | 16,455 |
| 1986 | 3,532 | | 4,786 | | 2,737 | | | | | 2,482 | | 13,537 |
| 1987 | 3,169 | | 6,194 | 1,231 | 3,622 | | | | | 2,031 | | 16,247 |
| 1988 | 1,637 | | 4,056 | 837 | 3,674 | | | | | 1,671 | | 11,875 |
| 1989 | 2,666 | 866 | 4,113 | 1,114 | 3,522 | | | | 370 | 962 | 1,238 | 14,851 |
| 1990 | 4,443 | | 3,626 | 1,285 | 3,724 | | | | | 1,314 | | 14,392 |
| 1991 | 2,454 | | 2,841 | 496 | 6,674 | | | | | 871 | | 13,336 |
| 1992 | 2,817 | 512 | 2,091 | | 4,150 | 747 | | | | 683 | | 11,000 |
| 1993 | 2,966 | | 2,528 | 400 | 5,403 | | | 2,379 | 535 | 1,117 | 2,665 | 17,993 |
| 1994 | 2,236 | | 3,492 | | 3,972 | | | 1,283 | 653 | 604 | 3,710 | 15,950 |
| 1995 | 2,205 | | 2,425 | | 3,684 | 688 | | 845 | 659 | 617 | 1,434 | 12,557 |
| 1996 | 2,505 | | 1,811 | | 2,699 | 342 | 1,075 | 855 | 1,251 | 541 | 1,067 | 12,146 |
| 1997 | 2,210 | | 521 | | 2,684 | | 1,738 | 882 | 976 | 572 | 1,635 | 11,218 |
| 1998 | 3,221 | | 280 | | 2,749 | | 1,139 | 862 | 729 | 329 | 710 | 10,019 |
| 1999 | 2,440 | | 488 | | 3,234 | | 2,333 | 2,623 | 1,341 | 677 | 1,266 | 14,402 |
| 2000 | 4,104 | | 1,452 | | 4,393 | | 2,593 | 2,450 | 2,504 | 987 | | 18,483 |
| 2001 | 3,580 | | 1,347 | | 3,336 | | 2,027 | 2,615 | 902 | 398 | | 14,205 |
| 2002 | 2,864 | | 1,450 | 237 | 5,254 | | 2,340 | 1,686 | 678 | 499 | 1,327 | 16,335 |
| 2003 | 2,422 | | 618 | 310 | 3,915 | | 945 | 2,517 | 3,497 | 386 | 2,317 | 16,927 |
| 2004 | 2,165 | 777 | 828 | 428 | 2,854 | 233 | 2,135 | 1,482 | 3,322 | 608 | 2,977 | 17,809 |
| 2005 | 2,053 | 233 | 669 | 310 | 2,649 | | 2,423 | 1,194 | 5,365 | 2,000 | 3,563 | 20,459 |
| 2006 | 1,279 | 1040 | 337 | 228 | 2,515 | 78 | 3,155 | 1,955 | 4,957 | | 227 | 15,771 |
| 2007 | 3,745 | 742 | 749 | 238 | 3,517 | 56 | 1,381 | 1,582 | 2,203 | 192 | 5,300 | 19,705 |
| 2008 | 1,805 | 499 | 525 | 222 | 3,416 | 359 | 580 | 1,857 | 2,837 | 201 | 4,326 | 16,627 |

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Table 5.–Page 2 of 2.

| Year | Chuitna River | Beluga River | Theodore River | Lewis River | Kustatan River | Polly Creek | Susitna R.-N. Foreland | South of N. Foreland | Big River Lakes ^a | Polly Cr., Crescent R. Beach | Other | Total |
|---------------|---------------|--------------|----------------|-------------|----------------|-------------|------------------------|----------------------|------------------------------|------------------------------|-------|--------|
| 2009 | 1,354 | 383 | 952 | 485 | 2,238 | 161 | 2,823 | 1,599 | 3,829 | 446 | 678 | 14,948 |
| 2010 | 441 | 656 | 595 | 340 | 2,152 | 92 | 1,710 | 2,048 | 4,859 | 644 | 975 | 14,512 |
| 2011 | 515 | 364 | 435 | 376 | 1,215 | 30 | 455 | 977 | 2,452 | 126 | 3,239 | 10,184 |
| 2012 | 549 | 349 | 117 | 18 | 1,949 | 44 | 641 | 1,277 | 3,908 | 125 | 1,705 | 10,682 |
| 1977-2011 Ave | 2,319 | 607 | 1,817 | 483 | 3,362 | 279 | 1,803 | 1,668 | 2,196 | 887 | 2,147 | 12,213 |
| 2002-2011 Ave | 2,020 | 587 | 773 | 317 | 3,006 | 144 | 1,816 | 1,774 | 3,173 | 550 | 2,493 | 16,135 |
| 2007-2011 Ave | 1,725 | 529 | 651 | 332 | 2,508 | 140 | 1,684 | 1,613 | 3,236 | 322 | 2,904 | 15,195 |

Source: Statewide Harvest Survey estimates (Mills 1979-1980, 1981a-b, 1982-1994, Howe et al. 1995,1996, 2001a-d; Walker et al. 2003 Jennings et al. 2004, 2006a-b; 2007, 2009a, 2009b, 2010a-b, 2011-b, *In prep*; Jennings et al. 2006a; Jennings et al. 2006b; Romberg et al. *In prep*).

^a Big River Lakes (Big River drainage, including Wolverine Creek).

Table 6.–Northern Cook Inlet Management Area recreational harvest by management unit, 1977–2012.

| Year | Knik Arm | | Eastside Susitna | | Westside Susitna | | West Cook Inlet | | NCIMA | Alaska | % by | Region II | % by |
|------|----------|---------|------------------|---------|------------------|---------|-----------------|---------|---------|-----------|-------|-----------|-------|
| | Harvest | % NCIMA | Harvest | % NCIMA | Harvest | % NCIMA | Harvest | % NCIMA | Total | Total | NCIMA | Total | NCIMA |
| 1977 | 67,979 | 43 | 49,274 | 31 | 36,096 | 23 | 3,510 | 2 | 156,859 | 2,300,332 | 7 | 1,929,407 | 8 |
| 1978 | 66,419 | 31 | 96,469 | 46 | 45,208 | 21 | 3,070 | 1 | 211,166 | 2,399,472 | 9 | 1,992,212 | 11 |
| 1979 | 68,658 | 41 | 50,476 | 30 | 46,939 | 28 | 2,453 | 1 | 168,526 | 2,502,213 | 7 | 2,044,813 | 8 |
| 1980 | 102,015 | 41 | 93,271 | 38 | 50,474 | 20 | 1,798 | 1 | 247,558 | 2,627,312 | 9 | 2,118,543 | 12 |
| 1981 | 109,824 | 57 | 46,558 | 24 | 32,153 | 17 | 3,631 | 2 | 192,166 | 2,528,056 | 8 | 2,052,719 | 9 |
| 1982 | 82,976 | 44 | 58,998 | 31 | 46,189 | 24 | 1,814 | 1 | 189,977 | 2,828,706 | 7 | 2,222,354 | 9 |
| 1983 | 92,689 | 50 | 45,330 | 24 | 41,855 | 23 | 5,596 | 3 | 185,470 | 3,086,280 | 6 | 2,409,876 | 8 |
| 1984 | 94,974 | 45 | 62,071 | 29 | 48,947 | 23 | 6,145 | 3 | 212,137 | 3,115,966 | 7 | 2,517,185 | 8 |
| 1985 | 104,136 | 51 | 39,684 | 20 | 47,868 | 24 | 10,853 | 5 | 202,541 | 3,096,044 | 7 | 2,469,836 | 8 |
| 1986 | 90,264 | 39 | 73,083 | 32 | 59,300 | 26 | 8,031 | 3 | 230,678 | 3,163,433 | 7 | 2,609,304 | 9 |
| 1987 | 98,373 | 46 | 47,548 | 22 | 57,252 | 27 | 11,400 | 5 | 214,573 | 3,207,138 | 7 | 2,584,420 | 8 |
| 1988 | 156,784 | 53 | 62,693 | 21 | 67,567 | 23 | 10,954 | 4 | 297,998 | 3,483,306 | 9 | 2,841,033 | 10 |
| 1989 | 115,070 | 49 | 51,426 | 22 | 55,361 | 24 | 11,592 | 5 | 233,449 | 3,213,867 | 7 | 2,519,404 | 9 |
| 1990 | 90,035 | 46 | 44,360 | 23 | 52,846 | 27 | 9,713 | 5 | 196,954 | 3,033,301 | 6 | 2,428,172 | 8 |
| 1991 | 103,384 | 44 | 51,068 | 22 | 66,514 | 29 | 11,492 | 5 | 232,458 | 3,311,513 | 7 | 2,633,148 | 9 |
| 1992 | 88,267 | 37 | 76,569 | 32 | 62,768 | 26 | 9,275 | 4 | 236,879 | 3,234,048 | 7 | 2,675,940 | 9 |
| 1993 | 90,017 | 39 | 67,907 | 30 | 55,215 | 24 | 15,384 | 7 | 228,523 | 2,989,720 | 8 | 2,387,224 | 10 |
| 1994 | 87,547 | 44 | 51,984 | 26 | 47,891 | 24 | 13,583 | 7 | 201,005 | 3,349,821 | 6 | 2,689,718 | 7 |
| 1995 | 57,182 | 39 | 42,845 | 29 | 37,688 | 25 | 10,741 | 7 | 148,456 | 2,909,979 | 5 | 2,396,666 | 6 |
| 1996 | 88,461 | 45 | 53,672 | 27 | 35,940 | 18 | 17,522 | 9 | 195,595 | 3,336,773 | 6 | 2,733,663 | 7 |
| 1997 | 69,199 | 45 | 37,909 | 24 | 36,110 | 23 | 11,755 | 8 | 154,973 | 3,294,273 | 5 | 2,643,988 | 6 |
| 1998 | 64,060 | 38 | 51,514 | 30 | 40,329 | 24 | 14,604 | 9 | 170,507 | 3,163,194 | 5 | 2,365,536 | 7 |
| 1999 | 70,384 | 32 | 66,153 | 30 | 70,806 | 32 | 15,120 | 7 | 222,463 | 3,093,608 | 7 | 2,163,862 | 10 |
| 2000 | 102,831 | 40 | 75,496 | 29 | 61,252 | 24 | 19,202 | 7 | 258,781 | 3,338,083 | 8 | 2,547,294 | 10 |
| 2001 | 79,920 | 37 | 59,205 | 27 | 57,173 | 26 | 19,582 | 9 | 215,880 | 3,078,100 | 7 | 2,228,839 | 10 |
| 2002 | 102,112 | 48 | 53,912 | 25 | 40,031 | 19 | 17,752 | 8 | 213,807 | 3,216,432 | 7 | 2,401,826 | 9 |
| 2003 | 68,332 | 37 | 41,764 | 23 | 52,462 | 29 | 21,416 | 12 | 183,974 | 3,052,124 | 6 | 2,177,543 | 8 |
| 2004 | 77,563 | 38 | 42,991 | 21 | 61,552 | 30 | 21,884 | 11 | 203,990 | 3,332,948 | 6 | 2,350,240 | 9 |
| 2005 | 67,036 | 40 | 35,066 | 21 | 49,444 | 29 | 17,936 | 11 | 169,482 | 3,235,176 | 5 | 2,173,207 | 8 |
| 2006 | 77,054 | 42 | 40,043 | 22 | 45,933 | 25 | 18,662 | 10 | 181,692 | 2,710,560 | 7 | 1,944,024 | 9 |
| 2007 | 60,293 | 40 | 30,763 | 21 | 35,021 | 23 | 23,537 | 16 | 149,614 | 3,032,493 | 5 | 2,123,212 | 7 |
| 2008 | 69,881 | 42 | 40,009 | 24 | 32,918 | 20 | 21,827 | 13 | 164,635 | 2,976,610 | 6 | 2,169,154 | 8 |

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Table 6.–Page 2 of 2.

| Year | Knik Arm | | Eastside Susitna | | Westside Susitna | | West Cook Inlet | | NCIMA | Alaska | % by | Region II | % by |
|----------------|----------|---------|------------------|---------|------------------|---------|-----------------|---------|---------|-----------|-------|-----------|-------|
| | Harvest | % NCIMA | Harvest | % NCIMA | Harvest | % NCIMA | Harvest | % NCIMA | Total | Total | NCIMA | Total | NCIMA |
| 2009 | 63,310 | 45 | 34,813 | 25 | 27,325 | 19 | 16,304 | 12 | 141,752 | 2,951,263 | 5 | 2,139,793 | 7 |
| 2010 | 53,326 | 40 | 27,957 | 21 | 34,140 | 26 | 16,249 | 12 | 131,672 | 2,566,595 | 5 | 1,900,591 | 7 |
| 2011 | 32,385 | 33 | 22,198 | 23 | 32,589 | 33 | 10,989 | 11 | 98,161 | 2,677,077 | 4 | 1,979,899 | 5 |
| 2012 | 24,480 | 32 | 17,464 | 23 | 22,121 | 29 | 13,263 | 17 | 77,328 | 2,470,395 | 3 | 1,771,727 | 4 |
| Average | | | | | | | | | | | | | |
| 1977-2011 | 83,221 | 43 | 52,145 | 27 | 47,747 | 24 | 12,439 | 6 | 195,553 | 3,012,419 | 6 | 2,330,386 | 8 |
| 2007-2011 | 55,839 | 41 | 31,148 | 23 | 32,399 | 24 | 17,781 | 13 | 137,167 | 2,818,711 | 5 | 2,046,668 | 7 |

Source: Statewide Harvest Survey estimates (Mills 1979-1980, 1981a-b, 1982-1994, Howe et al. 1995,1996, 2001a-d; Walker et al. 2003 Jennings et al. 2004, 2006a-b; 2007, 2009a, 2009b, 2010a-b, 2011-b, *In prep*; Jennings et al. 2006a; Jennings et al. 2006b; Romberg et al. *In prep*.)

Table 7.—Northern Cook Inlet Management Area sport fish harvest by species, 1977–2012.

| Year | Chinook salmon | Coho salmon | Sockeye salmon | Pink salmon | Chum salmon | Land-locked salmon | Rainbow trout | Dolly Varden | Arctic grayling | Lake trout | Burbot | Northern pike | White-fish | Eulachon | Other | Total |
|------|----------------|-------------|----------------|-------------|-------------|--------------------|---------------|--------------|-----------------|------------|--------|---------------|------------|----------|-------|---------|
| 1977 | 4,674 | 17,206 | 7,962 | 30,136 | 2,062 | 27,429 | 32,270 | 13,365 | 15,799 | 3,231 | 1,024 | 132 | 0 | 0 | 1,569 | 156,859 |
| 1978 | 3,543 | 27,019 | 3,140 | 58,808 | 17,969 | 21,252 | 42,087 | 17,130 | 15,728 | 1,980 | 876 | 316 | 0 | 0 | 1,318 | 211,166 |
| 1979 | 7,964 | 24,076 | 6,193 | 13,925 | 5,599 | 12,144 | 47,924 | 17,718 | 27,949 | 1,789 | 1,172 | 382 | 0 | 0 | 1,691 | 168,526 |
| 1980 | 8,198 | 39,167 | 7,658 | 61,985 | 5,577 | 21,163 | 49,428 | 18,255 | 29,720 | 2,833 | 1,383 | 232 | 0 | 0 | 1,959 | 247,558 |
| 1981 | 8,602 | 23,621 | 8,369 | 9,627 | 4,820 | 24,533 | 63,592 | 20,310 | 24,506 | 2,375 | 518 | 125 | 0 | 0 | 1,168 | 192,166 |
| 1982 | 12,449 | 35,246 | 9,067 | 19,045 | 8,111 | 11,841 | 49,948 | 19,723 | 19,196 | 1,560 | 1,656 | 607 | 0 | 0 | 1,528 | 189,977 |
| 1983 | 14,860 | 17,477 | 21,533 | 5,686 | 6,032 | 23,854 | 46,184 | 20,362 | 21,332 | 3,532 | 2,305 | 944 | 0 | 0 | 1,369 | 185,470 |
| 1984 | 20,424 | 49,537 | 15,609 | 14,763 | 8,115 | 15,428 | 42,901 | 14,440 | 21,148 | 2,843 | 2,778 | 1,821 | 1,058 | 0 | 1,272 | 212,137 |
| 1985 | 21,904 | 38,971 | 9,840 | 4,018 | 3,053 | 15,345 | 63,319 | 18,626 | 18,554 | 622 | 1,855 | 1,404 | 2,477 | 2,240 | 313 | 202,541 |
| 1986 | 25,873 | 45,890 | 14,203 | 15,992 | 9,354 | 16,405 | 42,642 | 20,268 | 20,109 | 2,286 | 2,899 | 1,977 | 2,105 | 10,651 | 24 | 230,678 |
| 1987 | 25,906 | 54,109 | 13,530 | 4,634 | 6,358 | 15,032 | 39,909 | 16,421 | 16,405 | 2,046 | 5,140 | 2,464 | 2,861 | 9,265 | 493 | 214,573 |
| 1988 | 29,720 | 83,241 | 14,573 | 8,693 | 13,408 | 17,207 | 74,962 | 17,645 | 18,735 | 2,529 | 1,835 | 3,473 | 3,128 | 8,849 | 0 | 297,998 |
| 1989 | 35,792 | 66,833 | 14,403 | 5,191 | 9,043 | 11,577 | 54,962 | 12,860 | 12,238 | 2,397 | 978 | 3,120 | 1,716 | 2,324 | 15 | 233,449 |
| 1990 | 30,967 | 50,404 | 11,839 | 6,005 | 2,557 | 16,101 | 40,139 | 13,792 | 8,187 | 1,656 | 3,141 | 2,842 | 3,516 | 5,591 | 217 | 196,954 |
| 1991 | 33,958 | 70,425 | 11,713 | 3,495 | 3,240 | 15,754 | 52,513 | 13,859 | 10,084 | 1,527 | 981 | 6,640 | 2,057 | 6,132 | 80 | 232,458 |
| 1992 | 45,226 | 82,859 | 11,921 | 8,225 | 2,858 | 11,961 | 34,161 | 7,496 | 6,385 | 1,698 | 1,412 | 5,382 | 862 | 15,523 | 910 | 236,879 |
| 1993 | 49,387 | 87,606 | 14,579 | 4,827 | 2,536 | 14,567 | 27,950 | 5,978 | 5,175 | 765 | 1,655 | 5,721 | 878 | 6,596 | 303 | 228,523 |
| 1994 | 31,104 | 73,017 | 12,479 | 3,878 | 2,937 | 14,198 | 28,855 | 5,163 | 8,044 | 411 | 2,276 | 3,893 | 1,193 | 13,135 | 422 | 201,005 |
| 1995 | 16,537 | 65,145 | 11,441 | 3,081 | 7,967 | 7,318 | 19,884 | 4,167 | 3,199 | 456 | 858 | 3,546 | 227 | 4,549 | 81 | 148,456 |
| 1996 | 19,839 | 77,853 | 11,048 | 5,430 | 4,841 | 23,350 | 26,653 | 9,096 | 5,724 | 471 | 898 | 7,934 | 176 | 2,181 | 101 | 195,595 |
| 1997 | 22,620 | 35,685 | 15,229 | 3,620 | 4,267 | 11,721 | 30,089 | 6,594 | 4,425 | 520 | 1,874 | 9,024 | 214 | 8,853 | 238 | 154,973 |
| 1998 | 22,912 | 68,231 | 16,343 | 7,889 | 3,451 | 5,377 | 19,931 | 3,736 | 3,752 | 338 | 1,358 | 8,180 | 566 | 8,376 | 67 | 170,507 |
| 1999 | 32,803 | 65,055 | 16,535 | 3,819 | 4,222 | 9,377 | 28,425 | 5,906 | 4,135 | 402 | 1,271 | 10,824 | 134 | 39,555 | 0 | 222,463 |
| 2000 | 33,102 | 105,252 | 23,235 | 14,627 | 5,166 | 12,064 | 31,703 | 6,116 | 2,923 | 385 | 2,177 | 9,577 | 311 | 11,827 | 316 | 258,781 |
| 2001 | 30,395 | 89,893 | 20,565 | 5,229 | 5,026 | 7,556 | 23,202 | 4,560 | 2,864 | 439 | 689 | 12,739 | 797 | 11,630 | 296 | 215,880 |
| 2002 | 26,474 | 99,155 | 11,946 | 5,177 | 5,461 | 9,137 | 31,521 | 4,150 | 2,532 | 643 | 1,371 | 12,318 | 331 | 3,298 | 293 | 213,807 |
| 2003 | 28,220 | 73,479 | 22,708 | 2,276 | 4,402 | 5,905 | 21,887 | 4,375 | 1,942 | 858 | 1,346 | 8,024 | 283 | 7,498 | 771 | 183,974 |
| 2004 | 27,543 | 88,746 | 16,936 | 6,629 | 3,959 | 5,940 | 21,468 | 3,965 | 2,148 | 734 | 729 | 12,171 | 327 | 12,573 | 122 | 203,990 |
| 2005 | 28,682 | 75,309 | 11,381 | 3,460 | 3,364 | 6,685 | 15,695 | 2,999 | 1,119 | 404 | 1,357 | 11,306 | 807 | 3,068 | 3,846 | 169,482 |
| 2006 | 28,644 | 95,086 | 11,653 | 5,009 | 2,227 | 3,688 | 16,311 | 2,486 | 2,134 | 157 | 1,082 | 11,404 | 330 | 71 | 1,410 | 181,692 |
| 2007 | 25,413 | 67,842 | 19,864 | 3,069 | 1,749 | 1,754 | 12,288 | 4,927 | 1,756 | 643 | 911 | 8,156 | 449 | 744 | 49 | 149,614 |
| 2008 | 15,919 | 90,006 | 16,750 | 2,499 | 2,233 | 2,198 | 17,908 | 3,030 | 1,571 | 453 | 1,715 | 7,999 | 364 | 1,832 | 158 | 164,635 |

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Table 7.–Page 2 of 2.

| Year | Chinook salmon | Coho salmon | Sockeye salmon | Pink salmon | Chum salmon | Landlocked salmon | Rainbow trout | Dolly Varden | Arctic grayling | Lake trout | Burbot | Northern pike | Whitefish | Eulachon | Other | Total |
|------------|----------------|-------------|----------------|-------------|-------------|-------------------|---------------|--------------|-----------------|------------|--------|---------------|-----------|----------|-------|---------|
| 2009 | 11,156 | 76,871 | 19,712 | 5,942 | 2,557 | 1,321 | 9,547 | 2,467 | 2,124 | 244 | 303 | 8,488 | 66 | 880 | 74 | 141,752 |
| 2010 | 10,510 | 65,935 | 16,281 | 3,142 | 2,460 | 2,084 | 13,194 | 2,570 | 1,958 | 316 | 658 | 9,913 | 141 | 2,510 | 0 | 131,672 |
| 2011 | 9,712 | 36,299 | 13,873 | 2,015 | 2,880 | 842 | 10,729 | 1,989 | 804 | 564 | 308 | 11,089 | 112 | 6,763 | 182 | 98,161 |
| 2012 | 3,020 | 29,890 | 13,046 | 1,880 | 3,178 | 2,835 | 9,198 | 1,445 | 729 | 173 | 454 | 7,815 | 83 | 3,290 | 292 | 77,328 |
| 1977–2011 | | | | | | | | | | | | | | | | |
| Average | 22,887 | 61,787 | 13,832 | 10,338 | 5,139 | 12,060 | 33,834 | 9,901 | 9,840 | 1,260 | 1,508 | 5,833 | 785 | 5,900 | 647 | 195,553 |
| % of total | | | | | | | | | | | | | | | | |
| Average | 12 | 32 | 7 | 5 | 3 | 6 | 17 | 5 | 5 | 1 | 1 | 3 | <1 | 3 | <1 | 100 |
| 2007–2011 | | | | | | | | | | | | | | | | |
| Average | 14,542 | 67,391 | 17,296 | 3,333 | 2,376 | 1,640 | 12,733 | 2,997 | 1,643 | 444 | 779 | 9,129 | 226 | 2,546 | 93 | 137,167 |

Note: species names are as follows: Chinook salmon *Oncorhynchus tshawytscha*, coho salmon *O. kisutch*, sockeye salmon *O. nerka*, pink salmon *O. gorbuscha*, chum salmon *O. keta*, landlocked salmon *O. spp.*, rainbow trout *O. mykiss*, Dolly Varden *Salvelinus malma*, Arctic grayling *Thymallus arcticus*, lake trout *S. namaycush*, burbot *Lota lota*, northern pike *Esox lucius*, lake whitefish *Coregonus clupeaformis*, and eulachon *Thaleichthys pacificus*.

Table 8.—Knik Arm drainage sport fish harvest by species as estimated by SWHS, 1977–2012.

| Year | Chinook salmon | Coho salmon | Sockeye salmon | Pink salmon | Chum salmon | Land-locked salmon | Rainbow trout | Dolly Varden | Arctic grayling | Lake trout | Burbot | Northern pike | White-fish | Eulachon | Other | Total |
|------|----------------|-------------|----------------|-------------|-------------|--------------------|---------------|--------------|-----------------|------------|--------|---------------|------------|----------|-------|---------|
| 1977 | 207 | 4,366 | 1,576 | 1,661 | 250 | 26,917 | 18,615 | 7,541 | 3,916 | 2,260 | 290 | | | | 380 | 67,979 |
| 1978 | 140 | 7,895 | 1,239 | 1,842 | 1,131 | 18,884 | 23,139 | 7,982 | 2,413 | 507 | 452 | | | | 795 | 66,419 |
| 1979 | 800 | 7,139 | 3,616 | 818 | 654 | 11,853 | 24,843 | 8,582 | 8,371 | 1,254 | 291 | | | | 437 | 68,658 |
| 1980 | 646 | 16,030 | 5,674 | 4,701 | 534 | 19,500 | 29,368 | 12,484 | 9,514 | 2,118 | 310 | | | | 1,136 | 102,015 |
| 1981 | 1,466 | 10,484 | 6,080 | 834 | 431 | 24,255 | 41,749 | 14,475 | 7,396 | 1,791 | 87 | | | | 776 | 109,824 |
| 1982 | 1,666 | 13,676 | 4,621 | 1,425 | 1,174 | 10,845 | 30,549 | 13,540 | 2,924 | 1,058 | 681 | | | | 817 | 82,976 |
| 1983 | 1,255 | 6,139 | 14,297 | 1,009 | 642 | 22,805 | 26,421 | 13,391 | 4,425 | 1,279 | 597 | | | | 429 | 92,689 |
| 1984 | 2,057 | 23,429 | 9,240 | 2,743 | 2,032 | 14,768 | 26,418 | 9,103 | 2,480 | 1,919 | 336 | | | | 449 | 94,974 |
| 1985 | 1,889 | 14,339 | 5,612 | 787 | 514 | 14,461 | 46,431 | 13,336 | 4,768 | 277 | 210 | 156 | 587 | 560 | 209 | 104,136 |
| 1986 | 1,524 | 12,361 | 6,009 | 1,800 | 3,770 | 14,299 | 27,690 | 13,048 | 4,233 | 313 | 804 | 458 | 580 | 3,351 | 24 | 90,264 |
| 1987 | 2,476 | 25,787 | 8,785 | 886 | 2,574 | 14,887 | 24,663 | 11,425 | 3,893 | 906 | 325 | 924 | 380 | 0 | 462 | 98,373 |
| 1988 | 2,916 | 40,037 | 8,076 | 1,927 | 5,221 | 16,588 | 58,609 | 11,314 | 8,367 | 1,911 | 291 | 364 | 1,163 | 0 | 0 | 156,784 |
| 1989 | 4,341 | 23,846 | 9,040 | 1,321 | 4,477 | 11,041 | 44,518 | 8,143 | 5,429 | 835 | 372 | 863 | 844 | 0 | 0 | 115,070 |
| 1990 | 2,022 | 18,762 | 6,588 | 650 | 746 | 15,950 | 30,699 | 8,746 | 3,068 | 1,067 | 262 | 754 | 622 | 0 | 99 | 90,035 |
| 1991 | 2,277 | 22,186 | 4,968 | 926 | 1,099 | 15,740 | 39,636 | 9,138 | 2,816 | 512 | 477 | 2,709 | 900 | 0 | 0 | 103,384 |
| 1992 | 3,969 | 25,814 | 5,349 | 1,044 | 510 | 11,875 | 27,995 | 4,186 | 2,511 | 840 | 500 | 2,605 | 257 | 0 | 812 | 88,267 |
| 1993 | 3,602 | 35,763 | 5,926 | 230 | 885 | 13,829 | 21,565 | 3,686 | 1,343 | 201 | 482 | 2,102 | 227 | 0 | 176 | 90,017 |
| 1994 | 4,303 | 28,539 | 5,082 | 635 | 1,356 | 14,153 | 22,446 | 3,532 | 2,898 | 66 | 512 | 1,328 | 242 | 2,292 | 163 | 87,547 |
| 1995 | 1,707 | 20,650 | 4,349 | 409 | 4,115 | 7,285 | 14,878 | 2,109 | 818 | 118 | 151 | 522 | 71 | 0 | 0 | 57,182 |
| 1996 | 1,579 | 24,874 | 4,307 | 961 | 1,681 | 21,364 | 21,780 | 5,606 | 1,940 | 76 | 218 | 4,021 | 16 | 0 | 38 | 88,461 |
| 1997 | 2,938 | 11,773 | 4,095 | 377 | 393 | 11,599 | 25,695 | 4,639 | 1,938 | 20 | 709 | 4,858 | 96 | 0 | 69 | 69,199 |
| 1998 | 2,031 | 23,750 | 5,499 | 646 | 797 | 5,057 | 17,693 | 2,425 | 1,300 | 68 | 121 | 4,272 | 356 | 0 | 45 | 64,060 |
| 1999 | 2,724 | 14,429 | 3,658 | 119 | 738 | 8,674 | 24,527 | 3,798 | 1,740 | 108 | 369 | 6,785 | 7 | 2,708 | 0 | 70,384 |
| 2000 | 2,824 | 32,530 | 7,536 | 954 | 1,254 | 11,233 | 28,745 | 3,393 | 1,194 | 116 | 805 | 5,698 | 113 | 6,131 | 305 | 102,831 |
| 2001 | 2,255 | 30,106 | 4,328 | 404 | 1,155 | 7,556 | 21,061 | 2,662 | 1,215 | 162 | 230 | 6,544 | 551 | 1,574 | 117 | 79,920 |
| 2002 | 3,195 | 44,448 | 4,619 | 466 | 1,685 | 9,137 | 28,325 | 1,822 | 881 | 533 | 1,069 | 5,716 | 190 | 0 | 26 | 102,112 |
| 2003 | 2,562 | 24,583 | 6,606 | 52 | 1,124 | 5,800 | 17,617 | 2,247 | 1,222 | 339 | 438 | 4,026 | 108 | 1,578 | 30 | 68,332 |
| 2004 | 2,556 | 34,298 | 7,148 | 859 | 808 | 5,915 | 17,738 | 2,380 | 703 | 0 | 171 | 4,961 | 15 | 11 | 0 | 77,563 |
| 2005 | 3,692 | 27,000 | 3,460 | 270 | 747 | 6,685 | 14,367 | 2,040 | 507 | 220 | 805 | 6,160 | 710 | 0 | 373 | 67,036 |
| 2006 | 3,813 | 39,953 | 4,622 | 698 | 780 | 3,680 | 13,524 | 1,525 | 972 | 40 | 550 | 6,664 | 162 | 71 | 0 | 77,054 |
| 2007 | 4,326 | 27,733 | 7,030 | 287 | 364 | 1,654 | 10,613 | 4,063 | 605 | 127 | 240 | 3,050 | 43 | 124 | 34 | 60,293 |
| 2008 | 2,843 | 35,996 | 6,695 | 304 | 620 | 2,198 | 15,537 | 1,935 | 744 | 300 | 926 | 1,752 | 31 | 0 | 0 | 69,881 |

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Table 8.–Page 2 of 2.

| Year | Chinook salmon | Coho salmon | Sockeye salmon | Pink salmon | Chum salmon | Land-locked salmon | Rainbow trout | Dolly Varden | Arctic grayling | Lake trout | Burbot | Northern pike | White-fish | Eulachon | Other | Total |
|--------------------|----------------|-------------|----------------|-------------|-------------|--------------------|---------------|--------------|-----------------|------------|--------|---------------|------------|----------|-------|--------|
| 2009 | 2,152 | 37,271 | 5,963 | 370 | 732 | 793 | 7,981 | 1,842 | 1,455 | 71 | 17 | 4,647 | 16 | 0 | 0 | 63,310 |
| 2010 | 1,076 | 26,369 | 5,630 | 919 | 528 | 2,008 | 10,845 | 1,612 | 687 | 100 | 163 | 3,372 | 17 | 0 | 0 | 53,326 |
| 2011 | 1,012 | 8,484 | 3,589 | 294 | 659 | 740 | 9,368 | 1,593 | 439 | 0 | 132 | 5,963 | 112 | 0 | 0 | 32,385 |
| 2012 | 292 | 5,014 | 2,685 | 166 | 782 | 2,730 | 8,294 | 928 | 277 | 48 | 33 | 3,231 | 0 | 0 | 0 | 24,480 |
| 1977–2011 Ave | 2,310 | 22,881 | 5,740 | 961 | 1,319 | 11,544 | 24,733 | 6,267 | 2,832 | 615 | 411 | 3,381 | 312 | 681 | 234 | 84,221 |
| % of total average | 3 | 27 | 7 | 1 | 2 | 14 | 29 | 7 | 3 | 1 | <1 | 4 | <1 | 1 | <1 | 100 |
| 2007–2011 Ave | 2,282 | 27,171 | 5,781 | 435 | 581 | 1,479 | 10,869 | 2,209 | 786 | 120 | 296 | 3,757 | 44 | 25 | 7 | 55,839 |

Table 9.—Eastside Susitna River drainage sport fish harvest by species, 1977–2012.

| Year | Chinook Salmon | Coho Salmon | Sockeye Salmon | Pink Salmon | Chum Salmon | Land-locked Salmon | Rainbow Trout | Dolly Varden | Arctic Grayling | Lake Trout | Burbot | White-fish | Northern Pike | Eulachon | Other | Total |
|------|----------------|-------------|----------------|-------------|-------------|--------------------|---------------|--------------|-----------------|------------|--------|------------|---------------|----------|-------|--------|
| 1977 | 1,056 | 5,709 | 3,594 | 19,663 | 1,382 | 512 | 5,225 | 2,726 | 7,469 | 693 | 619 | | | | 626 | 49,274 |
| 1978 | 886 | 8,573 | 267 | 50,711 | 14,203 | 2,368 | 5,930 | 5,640 | 6,590 | 877 | 271 | | | | 153 | 96,469 |
| 1979 | 1,298 | 7,564 | 1,020 | 11,189 | 3,791 | 291 | 9,463 | 3,699 | 10,489 | 472 | 427 | | | | 773 | 50,476 |
| 1980 | 1,370 | 10,368 | 873 | 52,746 | 4,552 | 1,663 | 6,715 | 2,671 | 10,959 | 267 | 367 | | | | 720 | 93,271 |
| 1981 | 2,202 | 6,593 | 833 | 8,143 | 4,149 | 278 | 8,813 | 2,874 | 11,860 | 287 | 220 | | | | 306 | 46,558 |
| 1982 | 2,063 | 10,167 | 1,555 | 15,345 | 6,644 | 996 | 7,536 | 4,066 | 9,747 | 335 | 199 | | | | 345 | 58,998 |
| 1983 | 2,852 | 5,176 | 3,221 | 3,954 | 4,982 | 1,049 | 9,639 | 4,205 | 7,478 | 1,404 | 901 | | | | 469 | 45,330 |
| 1984 | 4,428 | 13,916 | 2,705 | 9,491 | 5,211 | 660 | 7,656 | 4,004 | 11,222 | 362 | 1,133 | 1,058 | | | 225 | 62,071 |
| 1985 | 4,342 | 7,042 | 1,465 | 2,510 | 2,142 | 884 | 7,872 | 3,138 | 7,822 | 17 | 1,085 | 1,365 | | | 0 | 39,684 |
| 1986 | 8,569 | 16,190 | 4,029 | 10,527 | 4,756 | 2,106 | 8,061 | 4,213 | 10,346 | 1,816 | 1,380 | 1,090 | | | 0 | 73,083 |
| 1987 | 8,603 | 11,028 | 2,046 | 2,209 | 3,042 | 145 | 6,647 | 3,946 | 7,568 | 343 | 1,175 | 796 | | | 0 | 47,548 |
| 1988 | 9,139 | 19,518 | 2,857 | 4,129 | 6,604 | 619 | 7,622 | 4,748 | 6,020 | 291 | 600 | 546 | | | 0 | 62,693 |
| 1989 | 9,783 | 17,078 | 2,527 | 2,715 | 4,151 | 536 | 4,972 | 3,040 | 4,562 | 1,210 | 395 | 442 | | | 15 | 51,426 |
| 1990 | 9,423 | 11,743 | 2,677 | 4,093 | 1,565 | 151 | 5,008 | 3,613 | 2,910 | 387 | 1,345 | 1,378 | | | 67 | 44,360 |
| 1991 | 9,083 | 19,479 | 2,897 | 2,001 | 1,950 | 14 | 7,854 | 2,140 | 3,875 | 726 | 407 | 626 | | | 16 | 51,068 |
| 1992 | 21,307 | 33,790 | 3,468 | 5,899 | 2,044 | 86 | 3,948 | 2,394 | 2,189 | 495 | 608 | 265 | | | 76 | 76,569 |
| 1993 | 22,688 | 26,063 | 4,137 | 3,941 | 1,480 | 738 | 3,713 | 1,413 | 2,401 | 288 | 909 | 87 | 0 | | 49 | 67,907 |
| 1994 | 14,970 | 20,870 | 3,443 | 1,968 | 1,269 | 45 | 3,658 | 1,033 | 3,484 | 232 | 674 | 172 | 0 | | 166 | 51,984 |
| 1995 | 7,872 | 19,165 | 3,682 | 2,311 | 3,234 | 33 | 3,138 | 1,012 | 1,486 | 254 | 517 | 80 | 0 | | 61 | 42,845 |
| 1996 | 11,023 | 24,174 | 2,675 | 3,890 | 2,808 | 1,986 | 2,510 | 2,027 | 1,913 | 308 | 284 | 0 | 11 | | 63 | 53,672 |
| 1997 | 10,989 | 10,297 | 5,851 | 2,477 | 2,852 | 122 | 2,324 | 906 | 1,387 | 189 | 304 | 32 | 95 | | 84 | 37,909 |
| 1998 | 10,472 | 23,086 | 5,859 | 5,579 | 2,260 | 320 | 968 | 889 | 1,413 | 217 | 208 | 96 | 130 | | 17 | 51,514 |
| 1999 | 16,875 | 23,292 | 4,608 | 2,887 | 2,941 | 703 | 1,755 | 918 | 1,614 | 222 | 230 | 32 | 260 | 9,816 | 0 | 66,153 |
| 2000 | 11,774 | 37,748 | 6,509 | 11,483 | 3,279 | 831 | 1,521 | 823 | 979 | 154 | 242 | 52 | 101 | 0 | 0 | 75,496 |
| 2001 | 13,504 | 26,617 | 6,776 | 3,650 | 3,180 | 0 | 1,112 | 1,172 | 1,036 | 226 | 214 | 135 | 55 | 1,349 | 179 | 59,205 |
| 2002 | 10,695 | 27,183 | 3,427 | 3,760 | 3,389 | 0 | 1,751 | 1,512 | 1,165 | 103 | 211 | 67 | 618 | 0 | 31 | 53,912 |
| 2003 | 9,499 | 18,585 | 2,734 | 1,775 | 2,725 | 105 | 2,581 | 1,694 | 393 | 339 | 511 | 82 | 0 | 0 | 741 | 41,764 |
| 2004 | 8,498 | 20,484 | 3,107 | 3,321 | 2,547 | 25 | 1,924 | 1,093 | 975 | 594 | 238 | 94 | 91 | 0 | 0 | 42,991 |
| 2005 | 8,453 | 17,471 | 1,677 | 2,625 | 2,506 | 0 | 793 | 482 | 404 | 32 | 260 | 0 | 104 | 0 | 259 | 35,066 |
| 2006 | 7,339 | 22,719 | 1,412 | 3,918 | 1,321 | 8 | 1,590 | 619 | 427 | 111 | 406 | 0 | 137 | 0 | 36 | 40,043 |
| 2007 | 8,337 | 13,464 | 1,470 | 2,165 | 1,204 | 100 | 840 | 253 | 779 | 296 | 321 | 164 | 1,355 | 0 | 15 | 30,763 |
| 2008 | 5,834 | 24,211 | 2,975 | 1,985 | 1,229 | 0 | 1,521 | 359 | 421 | 98 | 533 | 244 | 468 | 0 | 131 | 40,009 |

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Table 9.–Page 2 of 2.

| Year | Chinook Salmon | Coho Salmon | Sockeye Salmon | Pink Salmon | Chum Salmon | Land-locked Salmon | Rainbow Trout | Dolly Varden | Arctic Grayling | Lake Trout | Burbot | White-fish | Northern Pike | Eulachon | Other | Total |
|-------------------|----------------|-------------|----------------|-------------|-------------|--------------------|---------------|--------------|-----------------|------------|--------|------------|---------------|----------|-------|--------|
| 2009 | 3,462 | 15,335 | 7,130 | 4,657 | 1,531 | 528 | 691 | 282 | 487 | 125 | 200 | 0 | 385 | 0 | 0 | 34,813 |
| 2010 | 2,274 | 14,291 | 3,914 | 1,455 | 1,399 | 76 | 1,826 | 592 | 546 | 84 | 440 | 27 | 1,033 | 0 | 0 | 27,957 |
| 2011 ^a | 2,710 | 9,040 | 2,459 | 1,572 | 2,167 | 102 | 977 | 239 | 211 | 516 | 60 | 0 | 2,138 | 0 | 7 | 22,198 |
| 2012 ^a | 203 | 7,629 | 4,277 | 1,367 | 2,214 | 105 | 623 | 95 | 277 | 103 | 217 | 0 | 79 | 0 | 275 | 17,464 |
| 1977-2011 | | | | | | | | | | | | | | | | |
| Ave | 8,105 | 17,087 | 3,139 | 7,736 | 3,271 | 517 | 4,233 | 2,127 | 4,075 | 411 | 511 | 319 | 367 | 859 | 161 | 52,145 |
| % of total | | | | | | | | | | | | | | | | |
| Average | 16 | 33 | 6 | 15 | 6 | 1 | 8 | 4 | 8 | 1 | 1 | 1 | 1 | 2 | <1 | 100 |
| 2007-2011 | | | | | | | | | | | | | | | | |
| Ave | 4,523 | 15,268 | 3,590 | 2,367 | 1,506 | 161 | 1,171 | 345 | 489 | 224 | 311 | 87 | 1,076 | 0 | 31 | 31,148 |

^a Totals include Susitna River salmon, rainbow trout, grayling, and burbot.

Table 10.—Westside Susitna River drainage sport fish harvest by species, 1977–2012.

| Year | Chinook Salmon | Coho Salmon | Sockeye Salmon | Pink Salmon | Chum Salmon | Rainbow Trout | Dolly Varden | Arctic Grayling | Lake Trout | Burbot | Northern Pike ^a | White-fish | Eulachon | Other | Total |
|------|----------------|-------------|----------------|-------------|-------------|---------------|--------------|-----------------|------------|--------|----------------------------|------------|----------|-------|--------|
| 1977 | 2,938 | 6,599 | 2,786 | 8,142 | 423 | 7,472 | 2,246 | 4,414 | 278 | 115 | 132 | | | 551 | 36,096 |
| 1978 | 2,039 | 10,173 | 1,634 | 5,605 | 2,635 | 12,295 | 2,667 | 6,725 | 596 | 153 | 316 | | | 370 | 45,208 |
| 1979 | 5,768 | 9,036 | 1,557 | 1,854 | 1,154 | 12,555 | 4,591 | 9,089 | 63 | 454 | 382 | | | 436 | 46,939 |
| 1980 | 6,148 | 12,141 | 1,111 | 4,237 | 491 | 12,785 | 2,825 | 9,247 | 448 | 706 | 232 | | | 103 | 50,474 |
| 1981 | 4,742 | 5,940 | 1,408 | 555 | 240 | 11,296 | 2,003 | 5,250 | 297 | 211 | 125 | | | 86 | 32,153 |
| 1982 | 8,573 | 10,658 | 2,881 | 2,065 | 293 | 11,465 | 1,813 | 6,525 | 167 | 776 | 607 | | | 366 | 46,189 |
| 1983 | 9,568 | 3,610 | 3,549 | 702 | 398 | 9,253 | 2,400 | 9,314 | 849 | 807 | 944 | | | 461 | 41,855 |
| 1984 | 12,106 | 9,511 | 3,415 | 2,467 | 872 | 8,079 | 798 | 7,409 | 562 | 1,309 | 1,821 | | | 598 | 48,947 |
| 1985 | 13,644 | 11,270 | 2,302 | 584 | 347 | 8,114 | 1,267 | 5,895 | 328 | 560 | 1,248 | 525 | 1,680 | 104 | 47,868 |
| 1986 | 13,402 | 13,117 | 4,076 | 3,385 | 615 | 6,668 | 2,470 | 5,441 | 157 | 715 | 1,519 | 435 | 7,300 | 0 | 59,300 |
| 1987 | 13,350 | 8,746 | 2,427 | 1,467 | 688 | 8,020 | 688 | 4,908 | 797 | 3,640 | 1,540 | 1,685 | 9,265 | 31 | 57,252 |
| 1988 | 15,970 | 16,283 | 3,167 | 2,582 | 1,474 | 8,058 | 1,401 | 4,275 | 327 | 944 | 2,818 | 1,419 | 8,849 | 0 | 67,567 |
| 1989 | 19,343 | 18,226 | 2,307 | 1,045 | 415 | 4,928 | 1,486 | 2,104 | 352 | 192 | 2,257 | 382 | 2,324 | 0 | 55,361 |
| 1990 | 17,425 | 13,883 | 1,938 | 1,238 | 234 | 3,960 | 1,163 | 2,158 | 202 | 1,534 | 2,088 | 1,381 | 5,591 | 51 | 52,846 |
| 1991 | 21,836 | 20,507 | 3,083 | 524 | 191 | 4,526 | 1,436 | 3,367 | 289 | 97 | 3,931 | 531 | 6,132 | 64 | 66,514 |
| 1992 | 18,737 | 16,218 | 2,916 | 1,264 | 304 | 2,028 | 400 | 1,572 | 363 | 304 | 2,777 | 340 | 15,523 | 22 | 62,768 |
| 1993 | 21,142 | 15,454 | 2,161 | 586 | 147 | 2,481 | 463 | 1,422 | 276 | 264 | 3,619 | 555 | 6,596 | 49 | 55,215 |
| 1994 | 10,248 | 15,361 | 1,919 | 1,259 | 312 | 2,526 | 507 | 1,654 | 113 | 1,090 | 2,556 | 779 | 9,483 | 84 | 47,891 |
| 1995 | 6,265 | 17,148 | 2,106 | 361 | 591 | 1,757 | 622 | 895 | 84 | 190 | 3,024 | 76 | 4,549 | 20 | 37,688 |
| 1996 | 5,879 | 17,375 | 1,115 | 558 | 297 | 1,924 | 693 | 1,736 | 87 | 396 | 3,902 | 160 | 1,818 | 0 | 35,940 |
| 1997 | 7,799 | 7,123 | 3,109 | 729 | 989 | 1,452 | 249 | 844 | 311 | 861 | 4,026 | 18 | 8,515 | 85 | 36,110 |
| 1998 | 9,716 | 13,235 | 2,463 | 1,589 | 394 | 1,081 | 122 | 987 | 46 | 1,029 | 3,753 | 114 | 5,795 | 5 | 40,329 |
| 1999 | 12,131 | 17,995 | 5,279 | 577 | 421 | 1,866 | 266 | 715 | 72 | 672 | 3,686 | 95 | 27,031 | 0 | 70,806 |
| 2000 | 17,341 | 23,262 | 4,946 | 2,159 | 594 | 1,226 | 534 | 666 | 60 | 1,130 | 3,692 | 139 | 5,492 | 11 | 61,252 |
| 2001 | 13,914 | 19,221 | 6,311 | 1,074 | 439 | 759 | 304 | 575 | 34 | 245 | 5,479 | 111 | 8,707 | 0 | 57,173 |
| 2002 | 11,357 | 14,144 | 1,881 | 700 | 377 | 1,209 | 320 | 479 | 0 | 91 | 5,865 | 74 | 3,298 | 236 | 40,031 |
| 2003 | 15,035 | 16,072 | 8,660 | 449 | 476 | 1,425 | 78 | 327 | 169 | 397 | 3,816 | 93 | 5,465 | 0 | 52,462 |
| 2004 | 15,694 | 17,785 | 3,358 | 2,292 | 520 | 1,629 | 124 | 291 | 109 | 320 | 6,626 | 218 | 12,562 | 24 | 61,552 |
| 2005 | 15,945 | 18,266 | 2,219 | 519 | 111 | 339 | 151 | 208 | 152 | 292 | 4,889 | 71 | 3,068 | 3,214 | 49,444 |
| 2006 | 16,454 | 20,474 | 626 | 338 | 113 | 1,027 | 209 | 716 | 0 | 126 | 4,318 | 168 | 0 | 1,364 | 45,933 |
| 2007 | 11,370 | 14,065 | 3,177 | 451 | 136 | 619 | 79 | 330 | 56 | 350 | 3,526 | 242 | 620 | 0 | 35,021 |
| 2008 | 6,805 | 15,126 | 1,428 | 201 | 231 | 744 | 91 | 350 | 55 | 256 | 5,683 | 89 | 1,832 | 27 | 32,918 |

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Table 10.–Page 2 of 2.

| Year | Chinook Salmon | Coho Salmon | Sockeye Salmon | Pink Salmon | Chum Salmon | Rainbow Trout | Dolly Varden | Arctic Grayling | Lake Trout | Burbot | Northern Pike ^a | White- fish | Eulachon | Other | Total |
|-----------------------|-------------------|----------------|-------------------|----------------|----------------|------------------|-----------------|--------------------|---------------|--------|-------------------------------|----------------|----------|-------|--------|
| 2009 | 4,713 | 14,464 | 2,358 | 734 | 193 | 865 | 190 | 182 | 48 | 86 | 3,368 | 50 | 0 | 74 | 27,325 |
| 2010 | 6,306 | 16,245 | 1,505 | 585 | 223 | 434 | 40 | 725 | 132 | 55 | 5,283 | 97 | 2,510 | 0 | 34,140 |
| 2011 | 5,914 | 12,483 | 3,413 | 124 | 54 | 341 | 52 | 154 | 31 | 116 | 2,969 | 0 | 6,763 | 175 | 32,589 |
| 2012 | 2,525 | 9,434 | 1,118 | 314 | 156 | 179 | 139 | 175 | 16 | 204 | 4,505 | 66 | 3,290 | 0 | 22,121 |
| 1977-2011 Average | 11,418 | 14,035 | 2,817 | 1,514 | 497 | 4,434 | 993 | 2,884 | 226 | 585 | 2,938 | 365 | 6,325 | 246 | 47,747 |
| % of total Average | 24 | 29 | 6 | 3 | 1 | 9 | 2 | 6 | <1 | 1 | 6 | 1 | 13 | 1 | 100 |
| 2007-2011 Average | 7,022 | 14,477 | 2,376 | 419 | 167 | 601 | 90 | 348 | 64 | 173 | 4,166 | 96 | 2,345 | 55 | 32,399 |

^a Pike may include Susitna river totals.

Table 11.—West Cook Inlet drainage sport fish harvest by species, 1977–2012.

| Year | Chinook Salmon | Coho Salmon | Sockeye Salmon | Pink Salmon | Chum Salmon | Rainbow Trout | Dolly Varden | Arctic Grayling | Lake Trout | Burbot | White-fish | Eulachon | N. Pike | Other | Total |
|------|----------------|-------------|----------------|-------------|-------------|---------------|--------------|-----------------|------------|--------|------------|----------|---------|-------|--------|
| 1977 | 473 | 532 | 6 | 670 | 7 | 958 | 852 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 3,510 |
| 1978 | 478 | 378 | 0 | 650 | 0 | 723 | 841 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,070 |
| 1979 | 98 | 337 | 0 | 64 | 0 | 1,063 | 846 | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 2,453 |
| 1980 | 34 | 628 | 0 | 301 | 0 | 560 | 275 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,798 |
| 1981 | 192 | 604 | 48 | 95 | 0 | 1,734 | 958 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,631 |
| 1982 | 147 | 745 | 10 | 210 | 0 | 398 | 304 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,814 |
| 1983 | 1,185 | 2,552 | 466 | 21 | 10 | 871 | 366 | 115 | 0 | 0 | 0 | 0 | 0 | 10 | 5,596 |
| 1984 | 1,833 | 2,681 | 249 | 62 | 0 | 748 | 535 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 6,145 |
| 1985 | 2,029 | 6,320 | 461 | 137 | 50 | 902 | 885 | 69 | 0 | 0 | 0 | 0 | 0 | 0 | 10,853 |
| 1986 | 2,378 | 4,222 | 89 | 280 | 213 | 223 | 537 | 89 | 0 | 0 | 0 | 0 | 0 | 0 | 8,031 |
| 1987 | 1,477 | 8,548 | 272 | 72 | 54 | 579 | 362 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 11,400 |
| 1988 | 1,695 | 7,403 | 473 | 55 | 109 | 673 | 182 | 73 | 0 | 0 | 0 | 0 | 291 | 0 | 10,954 |
| 1989 | 2,325 | 7,683 | 529 | 110 | 0 | 544 | 191 | 143 | 19 | 48 | 0 | 0 | 0 | 0 | 11,592 |
| 1990 | 2,097 | 6,016 | 636 | 24 | 12 | 472 | 270 | 51 | 0 | 135 | 0 | 0 | 0 | 0 | 9,713 |
| 1991 | 762 | 8,253 | 765 | 44 | 0 | 497 | 1,145 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 11,492 |
| 1992 | 1,213 | 7,037 | 188 | 18 | 0 | 190 | 516 | 113 | 0 | 0 | 0 | 0 | 0 | 0 | 9,275 |
| 1993 | 1,955 | 10,326 | 2,355 | 70 | 24 | 191 | 416 | 9 | 0 | 9 | 0 | 0 | 0 | 29 | 15,384 |
| 1994 | 1,583 | 8,247 | 2,035 | 16 | 0 | 225 | 91 | 8 | 0 | 0 | 0 | 1,360 | 9 | 9 | 13,583 |
| 1995 | 693 | 8,182 | 1,304 | 0 | 27 | 111 | 424 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10,741 |
| 1996 | 1,358 | 11,430 | 2,951 | 21 | 55 | 439 | 770 | 135 | 0 | 0 | 0 | 363 | 0 | 0 | 17,522 |
| 1997 | 894 | 6,492 | 2,174 | 37 | 33 | 618 | 800 | 256 | 0 | 0 | 68 | 338 | 45 | 0 | 11,755 |
| 1998 | 693 | 8,160 | 2,522 | 75 | 0 | 189 | 300 | 52 | 7 | 0 | 0 | 2,581 | 25 | 0 | 14,604 |
| 1999 | 1,073 | 9,339 | 2,990 | 236 | 122 | 277 | 924 | 66 | 0 | 0 | 0 | 0 | 93 | 0 | 15,120 |
| 2000 | 1,163 | 11,712 | 4,244 | 31 | 39 | 211 | 1,366 | 84 | 55 | 0 | 7 | 204 | 86 | 0 | 19,202 |
| 2001 | 722 | 13,949 | 3,150 | 101 | 252 | 270 | 422 | 38 | 17 | 0 | 0 | 0 | 661 | 0 | 19,582 |
| 2002 | 1,227 | 13,380 | 2,019 | 251 | 10 | 236 | 496 | 7 | 7 | 0 | 0 | 0 | 119 | 0 | 17,752 |
| 2003 | 1,124 | 14,239 | 4,708 | 0 | 77 | 264 | 356 | 0 | 11 | 0 | 0 | 455 | 182 | 0 | 21,416 |
| 2004 | 795 | 16,179 | 3,323 | 157 | 84 | 177 | 368 | 179 | 31 | 0 | 0 | 0 | 493 | 98 | 21,884 |
| 2005 | 592 | 12,572 | 4,025 | 46 | 0 | 196 | 326 | 0 | 0 | 0 | 26 | 0 | 153 | 0 | 17,936 |
| 2006 | 1,038 | 11,940 | 4,993 | 55 | 13 | 170 | 133 | 19 | 6 | 0 | 0 | 0 | 285 | 10 | 18,662 |
| 2007 | 1,380 | 12,580 | 8,187 | 166 | 45 | 216 | 532 | 42 | 164 | 0 | 0 | 0 | 225 | 0 | 23,537 |
| 2008 | 437 | 14,673 | 5,652 | 9 | 153 | 106 | 645 | 56 | 0 | 0 | 0 | 0 | 96 | 0 | 21,827 |

-continued-

Table 11.–Page 2 of 2.

| Year | Chinook Salmon | Coho Salmon | Sockeye Salmon | Pink Salmon | Chum Salmon | Rainbow Trout | Dolly Varden | Arctic Grayling | Lake Trout | Burbot | White-fish | Eulachon | N. Pike | Other | Total |
|-----------------------|----------------|-------------|----------------|-------------|-------------|---------------|--------------|-----------------|------------|--------|------------|----------|---------|-------|--------|
| 2009 | 829 | 9,801 | 4,261 | 181 | 101 | 10 | 153 | 0 | 0 | 0 | 0 | 880 | 88 | 0 | 16,304 |
| 2010 | 854 | 9,030 | 5,232 | 183 | 310 | 89 | 326 | 0 | 0 | 0 | 0 | 0 | 225 | 0 | 16,249 |
| 2011 | 76 | 6,292 | 4,412 | 25 | 0 | 43 | 105 | 0 | 17 | 0 | 0 | 0 | 19 | 0 | 10,989 |
| 2012 | 0 | 7,813 | 4,966 | 33 | 26 | 102 | 283 | 0 | 6 | 0 | 17 | 0 | 0 | 17 | 13,263 |
| 1977-2011 Average | 1,054 | 7,785 | 2,135 | 128 | 51 | 434 | 515 | 49 | 18 | 1 | 11 | 177 | 88 | 6 | 12,439 |
| % of total Average | 8 | 63 | 17 | 1 | <1 | 3 | 4 | <1 | <1 | <1 | <1 | 1 | 1 | <1 | 100 |
| 2007-2011 Average | 715 | 10,475 | 5,549 | 113 | 122 | 93 | 352 | 20 | 36 | 0 | 0 | 176 | 131 | 0 | 17,781 |

Table 12.—Percent of fish released by recreational anglers in the Northern Cook Inlet Management Area for 2001–2012.

| | 2001 | | 2002 | | 2003 | | 2004 | | 2005 | | 2006 | | 2007 | | 2001-2012 |
|-------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|--------------------------|
| | Catch | Percent Released | Average Percent Released |
| Chinook Salmon | 90,706 | 66.5 | 78,534 | 66.3 | 93,627 | 69.9 | 77,865 | 64.6 | 151,901 | 81.1 | 84,225 | 66.0 | 70,322 | 63.9 | 66.1 |
| Coho Salmon | 174,916 | 48.6 | 205,927 | 51.8 | 141,407 | 48.0 | 188,606 | 52.9 | 184,758 | 59.2 | 174,139 | 45.4 | 110,675 | 38.7 | 44.4 |
| Sockeye Salmon | 42,639 | 51.8 | 31,661 | 62.3 | 48,540 | 53.2 | 38,286 | 55.8 | 29,771 | 61.8 | 27,002 | 56.8 | 39,248 | 49.4 | 52.1 |
| Pink Salmon | 71,872 | 92.7 | 92,105 | 94.4 | 62,963 | 96.4 | 126,574 | 94.8 | 64,022 | 94.6 | 83,821 | 94.0 | 46,864 | 93.5 | 94.4 |
| Chum Salmon | 65,219 | 92.3 | 89,862 | 93.9 | 82,645 | 94.7 | 58,706 | 93.3 | 48,532 | 93.1 | 45,155 | 95.1 | 30,031 | 94.2 | 93.4 |
| Landlocked Salmon | 24,228 | 68.8 | 17,879 | 48.9 | 13,454 | 56.1 | 15,538 | 61.8 | 17,526 | 61.9 | 11,042 | 66.6 | 4,308 | 59.3 | 61.6 |
| Lake Trout | 2,088 | 79.0 | 5,280 | 87.8 | 3,714 | 76.9 | 2,300 | 68.1 | 8,661 | 95.3 | 1,119 | 86.0 | 1,694 | 62.0 | 79.6 |
| Dolly Varden | 24,458 | 81.4 | 25,653 | 83.8 | 43,851 | 90.0 | 35,519 | 88.8 | 47,603 | 93.7 | 26,933 | 90.8 | 27,677 | 82.2 | 87.8 |
| Rainbow Trout | 134,763 | 82.8 | 206,537 | 84.7 | 169,677 | 87.1 | 161,254 | 86.7 | 143,424 | 89.1 | 132,482 | 87.7 | 138,979 | 91.2 | 87.9 |
| Arctic Grayling | 32,641 | 91.2 | 44,056 | 94.3 | 32,216 | 94.0 | 30,204 | 92.9 | 21,572 | 94.8 | 20,571 | 89.6 | 14,946 | 88.3 | 92.7 |
| Whitefish | 2,435 | 67.3 | 1,426 | 76.8 | 2,919 | 90.3 | 3,492 | 90.6 | 6,151 | 86.9 | 1,480 | 77.7 | 1,220 | 63.2 | 80.4 |
| Northern Pike | 42,422 | 70.0 | 32,460 | 62.1 | 29,278 | 72.6 | 33,880 | 64.1 | 37,894 | 70.2 | 31,550 | 63.9 | 21,711 | 62.4 | 62.9 |
| Burbot | 1,121 | 38.5 | 2,473 | 44.6 | 2,122 | 36.6 | 1,354 | 46.2 | 3,672 | 63.0 | 4,065 | 73.4 | 2,424 | 62.4 | 47.9 |
| Eulachon | 12,552 | 7.3 | 4,667 | 29.3 | 7,498 | 0.0 | 12,640 | 0.5 | 3,068 | 0.0 | 110 | 35.5 | 744 | 0.0 | 11.4 |
| Other | 1,636 | 81.9 | 921 | 68.2 | 1,360 | 43.3 | 422 | 71.1 | 8,423 | 54.3 | 1,626 | 13.3 | 108 | 54.6 | 47.2 |
| Total | 723,696 | 70.2 | 839,441 | 74.5 | 735,271 | 75.0 | 786,640 | 74.1 | 776,978 | 78.2 | 645,320 | 71.8 | 510,951 | 70.7 | 73.1 |

-continued-

Table 12.–Page 2 of 2.

| | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | |
|-------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|
| | Catch | Percent Released |
| | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | |
| Chinook Salmon | 41,086 | 61.3 | 32,710 | 65.9 | 23,107 | 54.5 | 26,308 | 63.1 | 10,132 | 70.2 |
| Coho Salmon | 141,508 | 36.4 | 129,331 | 40.6 | 106,123 | 37.9 | 63,235 | 42.6 | 42,728 | 30.0 |
| Sockeye Salmon | 32,586 | 48.6 | 38,370 | 48.6 | 27,462 | 40.7 | 27,868 | 50.2 | 24,077 | 45.8 |
| Pink Salmon | 46,753 | 94.7 | 112,200 | 94.7 | 54,859 | 94.3 | 30,949 | 93.5 | 42,970 | 95.6 |
| Chum Salmon | 32,831 | 93.2 | 30,622 | 91.6 | 36,190 | 93.2 | 41,077 | 93.0 | 50,760 | 93.7 |
| Landlocked Salmon | 6,892 | 68.1 | 11,344 | 88.4 | 6,443 | 67.7 | 1,862 | 54.8 | 4,530 | 37.4 |
| Lake Trout | 1,659 | 72.7 | 1,589 | 84.6 | 2,781 | 88.6 | 2,063 | 72.7 | 961 | 82.0 |
| Dolly Varden | 26,981 | 88.8 | 19,398 | 87.3 | 19,390 | 86.7 | 17,301 | 88.5 | 16,396 | 91.2 |
| Rainbow Trout | 123,722 | 85.5 | 105,467 | 90.9 | 103,203 | 87.2 | 147,433 | 92.7 | 82,220 | 88.8 |
| Arctic Grayling | 20,303 | 92.3 | 26,465 | 92.0 | 19,171 | 89.8 | 25,130 | 96.8 | 19,476 | 96.3 |
| Whitefish | 1,826 | 80.1 | 871 | 92.4 | 1,157 | 87.8 | 369 | 69.6 | 462 | 82.0 |
| Northern Pike | 24,367 | 67.2 | 27,903 | 69.6 | 29,557 | 66.5 | 15,262 | 27.3 | 19,387 | 59.7 |
| Burbot | 3,167 | 45.8 | 937 | 67.7 | 1,044 | 37.0 | 611 | 49.6 | 505 | 10.1 |
| Eulachon | 1,832 | 0.0 | 880 | 0.0 | 6,956 | 63.9 | 6,763 | 0.0 | 3,296 | 0.2 |
| Other | 304 | 48.0 | 355 | 79.2 | 0 | 1.0 | 0 | 1.0 | 586 | 50.2 |
| Total | 505,817 | 67.5 | 538,442 | 73.7 | 437,443 | 69.9 | 406,231 | 75.8 | 318,486 | 75.7 |

Table 13.—Percent of fish released by recreational anglers in the Knik Arm and Eastside Susitna River areas, 2007–2012.

| | 2007 | | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | |
|--------------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|
| | Catch | Percent Released |
| Knik Arm Area | | | | | | | | | | | | |
| Chinook Salmon | 8,215 | 47.3 | 4,989 | 43.0 | 4,388 | 51.0 | 2,789 | 61.4 | 2,066 | 51.0 | 474 | 38.4 |
| Coho Salmon | 38,549 | 28.1 | 50,585 | 28.8 | 52,560 | 29.1 | 34,402 | 23.4 | 12,471 | 32.0 | 7,286 | 31.2 |
| Sockeye Salmon | 9,994 | 29.7 | 8,836 | 24.2 | 11,248 | 47.0 | 7,751 | 27.4 | 4,936 | 27.3 | 4,423 | 39.3 |
| Pink Salmon | 1,874 | 84.7 | 3,361 | 91.0 | 3,355 | 89.0 | 5,109 | 82.0 | 1,734 | 83.0 | 1,340 | 87.6 |
| Chum Salmon | 2,599 | 86.0 | 4,833 | 87.2 | 3,367 | 78.3 | 4,166 | 87.3 | 3,835 | 82.8 | 4,147 | 81.1 |
| Landlocked | | | | | | | | | | | | |
| Salmon | 4,208 | 60.7 | 6,892 | 68.1 | 8,176 | 90.3 | 5,659 | 64.5 | 1,393 | 46.9 | 4,425 | 38.3 |
| Lake Trout | 705 | 82.0 | 712 | 57.9 | 210 | 66.2 | 712 | 86.0 | 199 | 100.0 | 288 | 83.3 |
| Dolly Varden | 10,291 | 60.5 | 12,101 | 84.0 | 8,520 | 78.4 | 5,004 | 67.8 | 5,868 | 72.9 | 3,944 | 76.5 |
| Rainbow Trout | 40,742 | 74.0 | 67,585 | 77.0 | 39,983 | 80.0 | 42,267 | 74.3 | 44,805 | 79.1 | 29,680 | 72.1 |
| Arctic Grayling | 1,164 | 48.0 | 6,774 | 89.0 | 7,300 | 80.1 | 2,794 | 75.4 | 2,888 | 84.8 | 1,814 | 84.7 |
| Whitefish | 130 | 66.9 | 244 | 87.3 | 26 | 38.5 | 149 | 88.6 | 112 | 0.0 | 43 | 100.0 |
| Northern Pike | 6,013 | 49.3 | 3,612 | 51.5 | 10,213 | 54.5 | 6,031 | 44.1 | 7,930 | 24.8 | 5,742 | 43.7 |
| Burbot | 697 | 65.6 | 1,642 | 43.6 | 482 | 96.5 | 207 | 21.3 | 157 | 15.9 | 84 | 60.7 |
| Eulachon | 124 | 0.0 | 0 | | 0 | | 0 | | 0 | | 0 | |
| Other | 34 | 0.0 | 21 | 100.0 | 0 | | 0 | | 0 | | 0 | |
| Total | 125,339 | 51.9 | 172,187 | 59.4 | 149,828 | 57.7 | 117,040 | 54.4 | 88,394 | 63.4 | 63,690 | 61.6 |
| | <u>2007</u> | | <u>2008</u> | | <u>2009</u> | | <u>2010</u> | | <u>2011</u> | | <u>2012</u> | |
| East Susitna Area | | | | | | | | | | | | |
| Chinook Salmon | 28,663 | 70.9 | 18,229 | 68.0 | 10,593 | 2,011.0 | 7,660 | 70.3 | 7,680 | 64.7 | 1,855 | 89.1 |
| Coho Salmon | 23,397 | 42.5 | 39,895 | 39.3 | 27,523 | 44.3 | 28,503 | 49.9 | 19,016 | 52.5 | 14,164 | 46.1 |
| Sockeye Salmon | 4,944 | 70.3 | 6,484 | 54.1 | 14,389 | 50.4 | 7,118 | 45.0 | 5,983 | 58.9 | 7,777 | 45.0 |
| Pink Salmon | 29,269 | 92.6 | 33,882 | 94.1 | 79,467 | 94.1 | 29,266 | 95.0 | 19,556 | 92.0 | 26,095 | 94.8 |
| Chum Salmon | 20,970 | 94.3 | 21,232 | 94.2 | 23,325 | 93.4 | 25,365 | 94.5 | 28,674 | 92.4 | 37,125 | 94.0 |
| Landlocked | | | | | | | | | | | | |
| Salmon | 100 | 0.0 | 0 | | 3,168 | 83.3 | 784 | 90.3 | 469 | 78.3 | 105 | 0.0 |
| Lake Trout | 647 | 54.3 | 769 | 87.3 | 790 | 84.2 | 1,555 | 94.6 | 1,421 | 63.7 | 516 | 80.0 |
| Dolly Varden | 8,290 | 96.9 | 7,216 | 95.0 | 6,028 | 95.3 | 6,515 | 90.9 | 6,628 | 96.4 | 4,669 | 98.0 |
| Rainbow Trout | 64,077 | 98.7 | 36,798 | 95.9 | 36,707 | 98.1 | 39,958 | 95.4 | 63,725 | 98.5 | 27,446 | 97.7 |
| Arctic Grayling | 6,520 | 88.1 | 9,177 | 95.4 | 10,012 | 95.1 | 9,579 | 94.3 | 14,120 | 98.5 | 10,218 | 97.3 |
| Whitefish | 499 | 67.1 | 1,039 | 76.5 | 277 | 100.0 | 433 | 93.8 | 147 | 100.0 | 230 | 100.0 |
| Northern Pike | 2,833 | 52.2 | 4,750 | 90.1 | 1,318 | 70.8 | 6,935 | 85.1 | 3,508 | 39.1 | 3,959 | 98.0 |
| Burbot | 441 | 27.2 | 1,077 | 50.5 | 298 | 32.9 | 726 | 39.4 | 313 | 80.8 | 217 | 0.0 |
| Eulachon | 0 | | 0 | | 0 | | 4,446 | 100.0 | 6,763 | 100.0 | 0 | |
| Other | 29 | 48.3 | 256 | 48.8 | 176 | 100.0 | 0 | | 0 | | 516 | 46.7 |
| Total | 190,679 | 83.9 | 180,804 | 77.9 | 214,071 | 83.7 | 168,843 | 83.4 | 178,003 | 87.5 | 134,892 | 87.1 |

Table 14.–Percent of fish released by recreational anglers in the Westside Susitna River and West Cook Inlet areas, 2007–2012.

| | 2007 | | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | |
|---------------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|---------------|------------------|
| | Catch | Percent Released | Catch | Percent Released |
| West Susitna River | | | | | | | | | | | | |
| Chinook Salmon | 28,832 | 60.6 | 16,206 | 58.0 | 15,822 | 70.2 | 10,429 | 39.5 | 15,374 | 61.5 | 7,525 | 66.4 |
| Coho Salmon | 29,007 | 51.5 | 28,928 | 47.7 | 29,838 | 51.5 | 29,673 | 45.3 | 22,034 | 43.3 | 9,434 | 0.0 |
| Sockeye Salmon | 10,297 | 69.1 | 6,951 | 79.5 | 4,726 | 50.1 | 4,826 | 68.8 | 8,307 | 58.9 | 3,643 | 69.3 |
| Pink Salmon | 14,624 | 96.9 | 8,780 | 97.7 | 27,877 | 97.4 | 19,695 | 97.0 | 9,524 | 98.7 | 14,994 | 97.9 |
| Chum Salmon | 5,708 | 97.6 | 4,775 | 95.2 | 3,090 | 93.8 | 5,261 | 95.8 | 6,872 | 99.2 | 7,916 | 98.0 |
| Landlocked Salmon | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| Lake Trout | 113 | 50.4 | 156 | 64.7 | 397 | 87.9 | 160 | 17.5 | 31 | 0.0 | 145 | 89.0 |
| Dolly Varden | 4,733 | 98.3 | 3,360 | 97.3 | 2,010 | 90.5 | 4,131 | 99.0 | 2,159 | 97.6 | 2,199 | 93.7 |
| Rainbow Trout | 32,036 | 98.1 | 18,063 | 95.9 | 27,455 | 96.8 | 20,232 | 97.9 | 38,060 | 99.1 | 24,718 | 99.3 |
| Arctic Grayling | 7,052 | 95.3 | 4,269 | 91.8 | 9,142 | 98.0 | 6,798 | 89.3 | 7,975 | 98.1 | 7,313 | 97.6 |
| Whitefish | 591 | 59.1 | 536 | 83.4 | 539 | 90.7 | 569 | 83.0 | 110 | 100.0 | 147 | 55.1 |
| Northern Pike | 12,640 | 72.1 | 15,776 | 64.0 | 14,389 | 76.6 | 15,826 | 66.6 | 3,787 | 21.6 | 9,686 | 53.5 |
| Burbot | 1,286 | 72.8 | 448 | 42.9 | 157 | 45.2 | 111 | 50.5 | 141 | 17.7 | 204 | 0.0 |
| Eulachon | 620 | 0.0 | 1,832 | 0.0 | 0 | | 2,510 | 0.0 | 0 | | 3,296 | 0.2 |
| Other | 45 | 100.0 | 27 | 0.0 | 179 | 58.7 | 0 | | 0 | | 53 | 100.0 |
| Total | 147,584 | 76.3 | 110,107 | 70.1 | 135,621 | 79.9 | 120,221 | 71.6 | 114,374 | 71.5 | 91,273 | 75.8 |
| West Cook Inlet | | | | | | | | | | | | |
| Chinook Salmon | 4,612 | 70.1 | 1,662 | 73.7 | 1,907 | 56.5 | 2,229 | 61.7 | 1,188 | 93.6 | 278 | 100.0 |
| Coho Salmon | 19,722 | 36.2 | 22,100 | 33.6 | 19,410 | 49.5 | 13,545 | 33.3 | 9,714 | 35.2 | 11,844 | 34.0 |
| Sockeye Salmon | 14,013 | 41.6 | 10,315 | 45.2 | 8,007 | 46.8 | 7,767 | 32.6 | 8,642 | 48.9 | 8,234 | 39.7 |
| Pink Salmon | 1,097 | 84.9 | 730 | 98.8 | 1,501 | 87.9 | 789 | 76.8 | 135 | 81.5 | 541 | 93.9 |
| Chum Salmon | 754 | 94.0 | 1,991 | 92.3 | 840 | 88.0 | 1,398 | 77.8 | 1,696 | 100.0 | 1,572 | 98.3 |
| Landlocked Salmon | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| Lake Trout | 229 | 28.4 | 22 | 100.0 | 192 | 100.0 | 354 | 100.0 | 412 | 95.9 | 12 | 50.0 |
| Dolly Varden | 4,363 | 87.8 | 4,304 | 85.0 | 2,840 | 94.6 | 3,740 | 91.3 | 2,646 | 96.0 | 5,584 | 94.9 |
| Rainbow Trout | 2,124 | 89.8 | 1,276 | 91.7 | 1,322 | 99.2 | 746 | 88.1 | 843 | 94.9 | 376 | 72.9 |
| Arctic Grayling | 210 | 80.0 | 83 | 32.5 | 11 | 100.0 | 0 | | 147 | 100.0 | 131 | 100.0 |
| Whitefish | 0 | | 7 | 100.0 | 29 | 100.0 | 6 | 100.0 | 0 | | 42 | 59.5 |
| Northern Pike | 225 | 0.0 | 229 | 58.1 | 1,983 | 95.6 | 765 | 70.6 | 37 | 48.6 | 0 | |
| Burbot | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| Eulachon | 0 | | 0 | | 880 | 0.0 | 0 | | 0 | | 0 | |
| Other | 0 | | 0 | | 0 | | 0 | | 0 | | 17 | 0.0 |
| Total | 47,349 | 50.3 | 42,719 | 48.9 | 38,922 | 58.1 | 31,339 | 48.2 | 25,460 | 56.8 | 28,631 | 53.7 |

Table 15.–Harvest summary data for guided sport anglers in the Northern Cook Inlet Management Area, 2006-2012.

| Management Unit | Year | Guides | Clients | Trips | Chinook salmon | Coho salmon | Sockeye salmon | Rainbow trout |
|------------------|------|--------------|---------|-------|----------------|-------------|----------------|---------------|
| Knik Arm | 2006 | 19 | 1,344 | 373 | 379 | 1,044 | 2 | 0 |
| | 2007 | 19 | 1,668 | 456 | 363 | 937 | 33 | 1 |
| | 2008 | 22 | 1,843 | 492 | 419 | 1,361 | 3 | 1 |
| | 2009 | 19 | 1,696 | 473 | 323 | 718 | 5 | 3 |
| | 2010 | 17 | 1,312 | 359 | 146 | 1,143 | 5 | 8 |
| | 2011 | 14 | 1,075 | 282 | 149 | 869 | 2 | 0 |
| | 2012 | 13 | 563 | 160 | 16 | 332 | 3 | 2 |
| Susitna Drainage | 2006 | 157 | 10,529 | 3,223 | 2,887 | 5,074 | 59 | 84 |
| | 2007 | 172 | 12,139 | 3,655 | 2,892 | 3,994 | 1,297 | 88 |
| | 2008 | 203 | 13,297 | 4,329 | 2,283 | 6,809 | 1,325 | 105 |
| | 2009 | 138 | 8,451 | 2,737 | 1,422 | 4,094 | 1,403 | 24 |
| | 2010 | 147 | 11,771 | 3,910 | 1,686 | 5,982 | 1,053 | 49 |
| | 2011 | 147 | 10,313 | 3,439 | 1,836 | 4,969 | 1,730 | 97 |
| | 2012 | 122 | 8,834 | 2,831 | 807 | 2,892 | 1,166 | 42 |
| Eastside Susitna | 2006 | ^a | 2,871 | 778 | 621 | 997 | 13 | 2 |
| | 2007 | ^a | 3,353 | 880 | 616 | 1,239 | 344 | 1 |
| | 2008 | ^a | 3,003 | 774 | 523 | 1,293 | 680 | 0 |
| | 2009 | ^a | 1,656 | 437 | 340 | 375 | 555 | 0 |
| | 2010 | ^a | 1,460 | 401 | 223 | 333 | 398 | 1 |
| | 2011 | ^a | 2,243 | 603 | 397 | 650 | 442 | 5 |
| | 2012 | ^a | 2,062 | 531 | 23 | 903 | 575 | 0 |
| Westside Susitna | 2006 | ^a | 7,658 | 2,445 | 2,266 | 4,077 | 46 | 82 |
| | 2007 | ^a | 8,786 | 2,775 | 2,276 | 2,755 | 953 | 87 |
| | 2008 | ^a | 10,294 | 3,555 | 1,760 | 5,516 | 645 | 105 |
| | 2009 | ^a | 6,795 | 2,300 | 1,082 | 3,719 | 848 | 24 |
| | 2010 | ^a | 10,311 | 3,509 | 1,463 | 5,649 | 655 | 48 |
| | 2011 | ^a | 8,070 | 2,836 | 1,439 | 4,319 | 1,288 | 92 |
| | 2012 | ^a | 6,772 | 2,300 | 784 | 1,989 | 591 | 42 |
| West Cook Inlet | 2006 | 18 | 9,650 | 2,566 | 146 | 12,211 | 8,240 | 0 |
| | 2007 | 122 | 10,656 | 2,812 | 213 | 10,861 | 12,697 | 14 |
| | 2008 | 127 | 10,653 | 2,700 | 49 | 15,133 | 8,752 | 0 |
| | 2009 | 105 | 7,203 | 1,960 | 124 | 7,256 | 7,562 | 0 |
| | 2010 | 83 | 6,929 | 1,824 | 17 | 8,987 | 6,535 | 0 |
| | 2011 | 97 | 7,528 | 1,958 | 8 | 7,347 | 7,630 | 0 |
| | 2012 | 107 | 7,519 | 2,002 | 25 | 6,931 | 9,674 | 0 |

^a Total number of guides is available for the Susitna drainage only.

Table 16.—Economic value of sport fishing in Southcentral Alaska and the Matanuska-Susitna Borough during 2007.

| | South Central ^a | | | Matanuska-Susitna Borough | | |
|-----------------------|----------------------------|---------------|---------------|---------------------------|--------------|---------------|
| | Resident | Nonresident | Total | Resident | Nonresident | Total |
| Angler days | 1,085,962 | 710,843 | 1,796,805 | 178,886 | 117,095 | 295,981 |
| as % of Southcentral | | | | 16.5 | 16.5 | 16.5 |
| Spending ^c | \$560,955,071 | \$427,603,048 | \$988,558,119 | \$92,404,041 | \$70,437,459 | \$162,841,500 |
| \$/angler day | \$517 | \$602 | \$550 | \$517 | \$602 | \$550 |
| Income | \$174,829,996 | \$211,633,737 | \$386,463,733 | \$28,799,095 | \$34,861,638 | \$63,660,732 |
| Employment (jobs) | 5,170 | 6,365 | 11,535 | 852 | 1,048 | 1,900 |

^a Southwick Associates et al. 2008.

^b Colt, S. and T. Schwoerer 2009.

^c Includes license and stamps, trips, packages, equipment, and real estate and assumes all equipment and real estate to be used solely for sport fishing.

Table 17.—Estimated harvests, by all user groups, of Chinook salmon of Northern Cook Inlet origin, 1893–2012.

| Year | Harvest | Year | Harvest | Year | Harvest |
|------|---------|------|---------|------|---------|
| 1893 | 24,000 | 1935 | 60,060 | 1977 | 5,446 |
| 1894 | 12,400 | 1936 | 64,850 | 1978 | 4,430 |
| 1895 | 20,159 | 1937 | 68,786 | 1979 | 9,837 |
| 1896 | 14,461 | 1938 | 46,130 | 1980 | 11,301 |
| 1897 | 11,266 | 1939 | 42,181 | 1981 | 11,372 |
| 1898 | 13,111 | 1940 | 50,413 | 1982 | 17,146 |
| 1899 | 13,682 | 1941 | 83,858 | 1983 | 18,621 |
| 1900 | 21,346 | 1942 | 76,144 | 1984 | 23,842 |
| 1901 | 27,455 | 1943 | 89,105 | 1985 | 25,477 |
| 1902 | 39,210 | 1944 | 68,168 | 1986 | 43,345 |
| 1903 | 52,818 | 1945 | 55,362 | 1987 | 40,393 |
| 1904 | 24,058 | 1946 | 51,425 | 1988 | 44,266 |
| 1905 | 14,134 | 1947 | 85,443 | 1989 | 50,917 |
| 1906 | 17,936 | 1948 | 84,797 | 1990 | 42,414 |
| 1907 | 50,355 | 1949 | 89,025 | 1991 | 42,644 |
| 1908 | 27,019 | 1950 | 130,274 | 1992 | 51,651 |
| 1909 | 47,699 | 1951 | 150,010 | 1993 | 54,458 |
| 1910 | 39,222 | 1952 | 59,600 | 1994 | 35,508 |
| 1911 | 44,676 | 1953 | 71,544 | 1995 | 22,182 |
| 1912 | 38,293 | 1954 | 52,260 | 1996 | 22,981 |
| 1913 | 50,922 | 1955 | 37,199 | 1997 | 24,505 |
| 1914 | 38,043 | 1956 | 52,248 | 1998 | 26,569 |
| 1915 | 67,034 | 1957 | 34,214 | 1999 | 37,621 |
| 1916 | 50,316 | 1958 | 18,278 | 2000 | 37,325 |
| 1917 | 52,399 | 1959 | 26,226 | 2001 | 33,894 |
| 1918 | 27,909 | 1960 | 22,031 | 2002 | 29,888 |
| 1919 | 19,041 | 1961 | 15,822 | 2003 | 31,518 |
| 1920 | 31,650 | 1962 | 16,216 | 2004 | 31,376 |
| 1921 | 11,157 | 1963 | 14,106 | 2005 | 33,124 |
| 1922 | 24,824 | 1964 | 3,698 | 2006 | 34,092 |
| 1923 | 23,929 | 1965 | 7,801 | 2007 | 30,553 |
| 1924 | 21,610 | 1966 | 815 | 2008 | 21,278 |
| 1925 | 40,826 | 1967 | 623 | 2009 | 13,529 |
| 1926 | 60,496 | 1968 | 1,163 | 2010 | 14,174 |
| 1927 | 69,923 | 1969 | 3,927 | 2011 | 12,683 |
| 1928 | 55,908 | 1970 | 1,853 | 2012 | 4,968 |
| 1929 | 54,155 | 1971 | 10,494 | | |
| 1930 | 57,854 | 1972 | 5,748 | | |
| 1931 | 41,122 | 1973 | 246 | | |
| 1932 | 56,745 | 1974 | 238 | | |
| 1933 | 47,425 | 1975 | 301 | | |
| 1934 | 57,903 | 1976 | 692 | | |

Table 18.—Estimated harvests of Chinook salmon originating from the Northern Cook Inlet Management Area, 1977-2012.

| Year | Commercial | | | Recreational | | | | | Subsistence ^b | Grand Total |
|------|------------------|----------|--------|--------------------|------------------|------------------|-----------------|--------|--------------------------|-------------|
| | NCI ^a | Kustatan | Total | Knik Arm Drainages | Eastside Susitna | Westside Susitna | West Cook Inlet | Total | | |
| 1977 | 565 | 207 | 772 | 207 | 1,056 | 2,938 | 473 | 4,674 | | 5,446 |
| 1978 | 666 | 221 | 887 | 140 | 886 | 2,039 | 478 | 3,543 | | 4,430 |
| 1979 | 1,714 | 159 | 1,873 | 800 | 1,298 | 5,768 | 98 | 7,964 | | 9,837 |
| 1980 | 993 | 174 | 1,167 | 646 | 1,370 | 6,148 | 34 | 8,198 | 1,936 | 11,301 |
| 1981 | 725 | 43 | 768 | 1,466 | 2,202 | 4,742 | 192 | 8,602 | 2,002 | 11,372 |
| 1982 | 2,716 | 391 | 3,107 | 1,666 | 2,063 | 8,573 | 147 | 12,449 | 1,590 | 17,146 |
| 1983 | 933 | 163 | 1,096 | 1,255 | 2,852 | 9,568 | 1,185 | 14,860 | 2,665 | 18,621 |
| 1984 | 1,004 | 214 | 1,218 | 2,057 | 4,428 | 12,106 | 1,833 | 20,424 | 2,200 | 23,842 |
| 1985 | 1,890 | 211 | 2,101 | 1,889 | 4,342 | 13,644 | 2,029 | 21,904 | 1,472 | 25,477 |
| 1986 | 15,488 | 308 | 15,796 | 1,524 | 8,569 | 13,402 | 2,378 | 25,873 | 1,676 | 43,345 |
| 1987 | 12,701 | 176 | 12,877 | 2,476 | 8,603 | 13,350 | 1,477 | 25,906 | 1,610 | 40,393 |
| 1988 | 12,836 | 123 | 12,959 | 2,916 | 9,139 | 15,970 | 1,695 | 29,720 | 1,587 | 44,266 |
| 1989 | 12,731 | 1,144 | 13,875 | 4,341 | 9,783 | 19,343 | 2,325 | 35,792 | 1,250 | 50,917 |
| 1990 | 9,582 | 1,084 | 10,666 | 2,022 | 9,423 | 17,425 | 2,097 | 30,967 | 781 | 42,414 |
| 1991 | 6,859 | 925 | 7,784 | 2,277 | 9,083 | 21,836 | 762 | 33,958 | 902 | 42,644 |
| 1992 | 4,554 | 964 | 5,518 | 3,969 | 21,307 | 18,737 | 1,213 | 45,226 | 907 | 51,651 |
| 1993 | 3,277 | 424 | 3,701 | 3,602 | 22,688 | 21,142 | 1,955 | 49,387 | 1,370 | 54,458 |
| 1994 | 3,185 | 449 | 3,634 | 4,303 | 14,970 | 10,248 | 1,583 | 31,104 | 770 | 35,508 |
| 1995 | 4,130 | 198 | 4,328 | 1,707 | 7,872 | 6,265 | 693 | 16,537 | 1,317 | 22,182 |
| 1996 | 1,958 | 145 | 2,103 | 1,579 | 11,023 | 5,879 | 1,358 | 19,839 | 1,039 | 22,981 |
| 1997 | 1,133 | 113 | 1,246 | 2,938 | 10,989 | 7,799 | 894 | 22,620 | 639 | 24,505 |
| 1998 | 2,547 | 83 | 2,630 | 2,031 | 10,472 | 9,716 | 693 | 22,912 | 1,027 | 26,569 |
| 1999 | 2,812 | 776 | 3,588 | 2,724 | 16,875 | 12,131 | 1,073 | 32,803 | 1,230 | 37,621 |
| 2000 | 2,307 | 759 | 3,066 | 2,824 | 11,774 | 17,341 | 1,163 | 33,102 | 1,157 | 37,325 |
| 2001 | 1,811 | 712 | 2,523 | 2,255 | 13,504 | 13,914 | 722 | 30,395 | 976 | 33,894 |
| 2002 | 1,895 | 439 | 2,334 | 3,195 | 10,695 | 11,357 | 1,227 | 26,474 | 1,080 | 29,888 |
| 2003 | 1,670 | 445 | 2,115 | 2,562 | 9,499 | 15,035 | 1,124 | 28,220 | 1,183 | 31,518 |
| 2004 | 2,058 | 430 | 2,488 | 2,556 | 8,498 | 15,694 | 795 | 27,543 | 1,345 | 31,376 |
| 2005 | 3,373 | 87 | 3,460 | 3,692 | 8,453 | 15,945 | 592 | 28,682 | 982 | 33,124 |
| 2006 | 4,261 | 244 | 4,505 | 3,813 | 7,339 | 16,454 | 1,038 | 28,644 | 943 | 34,092 |
| 2007 | 3,822 | 37 | 3,859 | 4,326 | 8,337 | 11,370 | 1,380 | 25,413 | 1,281 | 30,553 |
| 2008 | 3,983 | 198 | 4,181 | 2,843 | 5,834 | 6,805 | 437 | 15,919 | 1,178 | 21,278 |
| 2009 | 1,630 | 107 | 1,737 | 2,152 | 3,462 | 4,713 | 829 | 11,156 | 636 | 13,529 |
| 2010 | 1,750 | 52 | 1,802 | 2,274 | 2,274 | 6,322 | 659 | 11,529 | 843 | 14,174 |
| 2011 | 2,299 | 77 | 2,376 | 1,012 | 2,710 | 5,914 | 76 | 9,712 | 595 | 12,683 |
| 2012 | 1,050 | 58 | 1,108 | 292 | 203 | 2,525 | 0 | 3,020 | 840 | 4,968 |

^a Northern District total.

^b Includes Tyonek subsistence fishery 1980-2003 and Northern/Central districts subsistence fisheries 1985 and 1991-1993. 1994-1995 data include Northern districts.

Table 19.–Chinook salmon escapement goals for Northern Cook Inlet Management Area waters.

| Drainage | Escapement Goal Range | Type ^a | Method of Survey |
|---|-----------------------|-------------------|------------------|
| <u>Knik Arm Management Unit</u> | | | |
| Little Susitna River | 900-1,800 | SEG | Aerial |
| <u>Eastside Susitna River Management Unit</u> | | | |
| Chulitna River | 1,800-5,100 | SEG | Aerial |
| Clear Creek | 950-3,400 | SEG | Aerial |
| Goose Creek | 250-650 | SEG | Aerial |
| Little Willow Creek | 450-1,800 | SEG | Aerial |
| Montana Creek | 1,100-3,100 | SEG | Aerial |
| Prairie Creek | 3,100-9,200 | SEG | Aerial |
| Sheep Creek | 600-1,200 | SEG | Aerial |
| Willow Creek | 1,600-2,800 | SEG | Aerial |
| Deception Creek | No goal | | |
| <u>Westside Susitna River Management Unit</u> | | | |
| Alexander Creek | 2,100-6,000 | SEG | Aerial |
| Deshka River | 13,000-28,000 | SEG | Weir |
| Lake Creek | 2,500-7,100 | SEG | Aerial |
| Peters Creek | 1,000-2,600 | SEG | Aerial |
| Talachulitna River | 2,200-5,000 | SEG | Aerial |
| <u>West Cook Inlet Management Unit</u> | | | |
| Chuitna River | 1,200-2,900 | SEG | Aerial |
| Lewis River | 250-800 | SEG | Aerial |
| Theodore River | 500-1,700 | SEG | Aerial |

^a SEG=sustainable escapement goal; BEG=biological escapement goal.

Table 20.—Harvest of Chinook salmon from the Knik Arm Management Unit, 1977-2012.

| Year | Little Susitna R. | Eklutna Tailrace | Other | Total |
|-------------------|-------------------|------------------|-------|-------|
| 1977 | 191 | | 16 | 207 |
| 1978 | 93 | | 47 | 140 |
| 1979 | 800 | | 0 | 800 |
| 1980 | 646 | | 0 | 646 |
| 1981 | 1,418 | | 48 | 1,466 |
| 1982 | 1,467 | | 199 | 1,666 |
| 1983 | 1,187 | | 68 | 1,255 |
| 1984 | 1,883 | | 174 | 2,057 |
| 1985 | 1,845 | | 44 | 1,889 |
| 1986 | 1,457 | | 67 | 1,524 |
| 1987 | 2,282 | | 194 | 2,476 |
| 1988 | 2,822 | | 94 | 2,916 |
| 1989 | 4,204 | | 137 | 4,341 |
| 1990 | 1,965 | | 57 | 2,022 |
| 1991 | 2,102 | | 175 | 2,277 |
| 1992 | 3,920 | | 49 | 3,969 |
| 1993 | 3,441 | | 161 | 3,602 |
| 1994 | 4,204 | | 99 | 4,303 |
| 1995 | 1,698 | | 9 | 1,707 |
| 1996 | 1,484 | | 95 | 1,579 |
| 1997 | 2,938 | | 0 | 2,938 |
| 1998 | 2,031 | | 0 | 2,031 |
| 1999 | 2,713 | | 11 | 2,724 |
| 2000 | 2,802 | | 22 | 2,824 |
| 2001 | 2,243 | | 12 | 2,255 |
| 2002 | 3,144 | | 51 | 3,195 |
| 2003 | 2,138 | 399 | 25 | 2,562 |
| 2004 | 2,362 | 23 | 66 | 2,451 |
| 2005 | 2,724 | 941 | 27 | 3,692 |
| 2006 | 3,303 | 484 | 26 | 3,813 |
| 2007 | 3,210 | 1,084 | 32 | 4,326 |
| 2008 | 2,219 | 594 | 30 | 2,843 |
| 2009 | 1,653 | 499 | 0 | 2,152 |
| 2010 | 889 | 288 | 17 | 1,194 |
| 2011 | 828 | 184 | - | 1,012 |
| 2012 | 216 | 76 | - | 292 |
| 1977-2010 Average | 2,161 | 539 | 60 | 2,348 |
| 2006-2010 Average | 2,255 | 590 | 21 | 2,866 |

Table 21.—Escapement of Chinook salmon, Knik Arm Management Unit, 1977-2012.

| Year | Little Susitna River | | Moose Creek ^a |
|-------------------|----------------------|--------------------|--------------------------|
| | Weir | Aerial | |
| 1979 | ND | ^b | 253 |
| 1980 | ND | ^b | ^b |
| 1981 | ND | ^b | 238 |
| 1982 | ND | ^b | 406 |
| 1983 | ND | 929 | 452 |
| 1984 | ND | 558 | 541 |
| 1985 | ND | 1,005 | 475 |
| 1986 | ND | ^b | 419 |
| 1987 | ND | 1,386 | 957 |
| 1988 | 7,374 | 3,197 | 1,072 |
| 1989 | 4,367 | ^b | 999 |
| 1990 | ND | 922 | 545 |
| 1991 | ND | 892 | 704 |
| 1992 | ND | 1,441 | 959 |
| 1993 | ND | ^{bc} | 175 ^d |
| 1994 | 2,981 | 1,221 ^c | 894 |
| 1995 | 2,809 | 1,714 ^c | 488 |
| 1996 | ND | 1,079 ^c | 652 |
| 1997 | ND | ^{bc} | 652 |
| 1998 | ND | 1,091 ^c | 214 |
| 1999 | ND | ^{bc} | 744 |
| 2000 | ND | 1,094 ^c | 198 |
| 2001 | ND | 1,238 ^c | 275 |
| 2002 | ND | 1,660 ^e | 310 |
| 2003 | ND | 1,114 ^e | 471 |
| 2004 | ND | 1,694 ^e | 197 |
| 2005 | ND | 2,095 ^e | 254 |
| 2006 | ND | 1,855 ^e | 216 |
| 2007 | ND | 1,731 ^e | 330 |
| 2008 | ND | 1,297 ^e | 384 |
| 2009 | ND | 1,028 ^e | 201 |
| 2010 | ND | 589 ^e | 142 |
| 2011 | ND | 887 ^e | 175 |
| 2012 | ND | 1,154 ^e | 163 |
| 1983-2010 Average | | 1,340 | 497 |
| 2001-2010 Average | | 1,430 | 278 |
| 2006-2010 Average | | 1,300 | 255 |

Note: ND = no data.

^a Foot survey (1977-1994); helicopter survey (1995-2006).

^b No count conducted, water too turbid.

^c Biological Escapement Goal (BEG) = 850 fish.

^d Late count.

^e Sustainable Escapement Goal (SEG) = 900 to 1,800 fish.

Table 22.—Chinook salmon smolt stocked and adult sport fish harvest at Eklutna Tailrace 2002–2013, and planned smolt release for 2014..

| Year | Brood Year | Total Smolt Released | Mark Type ^a | Mean Weight (g) | Release Date | Brood Stock | Hatchery | Harvest ^a |
|-------------------|-------------------|----------------------|------------------------|--------------------------------|--------------|-----------------|-----------------|----------------------|
| 2002 | 2001 | 106,991 | TM | 11.3 | 5/20 | Ship Creek | Elmendorf | 0 |
| 2003 | 2002 | 218,492 | TM | 12.8 (50.05%) 12.0 (49.95%) | 6/3, 6/4 | Ship Creek | Fort Richardson | 399 |
| 2004 | 2002 ^b | 215,165 | TM | 13.4 | 5/19 | Ship Creek | Fort Richardson | 23 |
| 2005 | 2003 ^b | 164,586 | TM | 14.0 | 6/1 | Ship Creek | Fort Richardson | 941 |
| 2006 | 2004 ^b | 213,250 | TM | 10.6 | 5/31, 6/1 | Ship Creek | Fort Richardson | 484 |
| 2007 | 2005 ^b | 110,978 | TM | 8.9 | 5/30 | Ship Creek | Fort Richardson | 1,084 |
| 2008 | 2006 ^b | 114,136 | TM | 9.1 | 5/27 | Ship Creek | Fort Richardson | 594 |
| 2009 | 2007 ^b | 77,785 | TM | 7.1 | 6/8 | Ship Creek | Fort Richardson | 499 |
| 2010 | 2008 ^b | 152,014 | TM | 9.1 | 6/19 | Ship Creek | Fort Richardson | 168 |
| 2011 | 2009 ^b | 122,962 | TM | 11.0 | 5/31 | Ship Creek | Fort Richardson | 184 |
| 2012 | 2011 | 160,347 | TM | 13.5 | 5/29 | Ship Creek | WJHSFH | 76 |
| 2013 | 2012 | 94,609 | TM | 15.9 | 6/18 | Ship Creek | WJHSFH | ND |
| 2014 ^c | 2013 | 424,000 ^c | TM | 14.0 | 6/15 | Deception Creek | WJHSFH | ND |

Note: TM=thermal mark; WJHSFH = William Jack Hernandez Sport Fish Hatchery. ND = Data not available from Statewide Harvest Survey.

^a Harvest estimates from Statewide Harvest Surveys (Jennings et al. 2006 a-b, 2007, 2009 a-b, 2010 a-b, 2011a-b, *In prep*; Romberg et al. *In prep*).

^b Cold water rearing conditions brood years 2004-2012 required growth over two winters to reach optimal release size.

^c Planned smolt release.

Table 23.—Harvest of Chinook salmon from eastside Susitna River, westside Susitna River, West Cook Inlet and Knik Arm drainages, 1979-2012.

| Year | Eastside Susitna River | | | Westside Susitna River | West Cook Inlet | Knik Arm | Total |
|---------------|------------------------|--------------|--------|---------------------------|--------------------|----------|--------|
| | Hatchery | Non-hatchery | Total | | | | |
| 1979 | | | 1,298 | 5,768 | 98 | 800 | 7,964 |
| 1980 | | | 1,370 | 6,148 | 34 | 646 | 8,198 |
| 1981 | | | 2,202 | 4,742 | 192 | 1,466 | 8,602 |
| 1982 | | | 2,063 | 8,573 | 147 | 1,666 | 12,449 |
| 1983 | | | 2,852 | 9,568 | 1,185 | 1,255 | 14,860 |
| 1984 | | | 4,428 | 12,106 | 1,833 | 2,057 | 20,424 |
| 1985 | | | 4,342 | 13,644 | 2,029 | 1,889 | 21,904 |
| 1986 | | | 8,569 | 13,402 | 2,378 | 1,524 | 25,873 |
| 1987 | | | 8,603 | 13,350 | 1,477 | 2,476 | 25,906 |
| 1988 | 355 | 8,784 | 9,139 | 15,970 | 1,695 | 2,916 | 29,720 |
| 1989 | 1,079 | 8,704 | 9,783 | 19,343 | 2,325 | 4,341 | 35,792 |
| 1990 | 1,194 | 8,229 | 9,423 | 17,425 | 2,097 | 2,022 | 30,967 |
| 1991 | 844 | 8,239 | 9,083 | 21,836 | 762 | 2,277 | 33,958 |
| 1992 | 4,566 | 16,741 | 21,307 | 18,737 | 1,213 | 3,969 | 45,226 |
| 1993 | 3,977 | 18,711 | 22,688 | 21,142 | 1,955 | 3,602 | 49,387 |
| 1994 | 2,703 | 12,267 | 14,970 | 10,248 | 1,583 | 4,303 | 31,104 |
| 1995 | 1,111 | 6,761 | 7,872 | 6,265 | 693 | 1,707 | 16,537 |
| 1996 | 1,205 | 9,818 | 11,023 | 5,879 | 1,358 | 1,579 | 19,839 |
| 1997 | 1,091 | 9,898 | 10,989 | 7,799 | 894 | 2,938 | 22,620 |
| 1998 | 902 | 9,570 | 10,472 | 9,716 | 693 | 2,031 | 22,912 |
| 1999 | 2,464 | 14,411 | 16,875 | 12,131 | 1,073 | 2,724 | 32,803 |
| 2000 | 1,776 | 9,998 | 11,774 | 17,341 | 1,163 | 2,824 | 33,102 |
| 2001 | 2,057 | 11,447 | 13,504 | 13,914 | 722 | 2,255 | 30,395 |
| 2002 | 1,720 | 8,975 | 10,695 | 11,357 | 1,227 | 3,195 | 26,474 |
| 2003 | 1,605 | 7,894 | 9,499 | 15,035 | 1,124 | 2,562 | 28,220 |
| 2004 | 969 | 7,529 | 8,498 | 15,694 | 795 | 2,556 | 27,543 |
| 2005 | 981 | 7,472 | 8,453 | 15,945 | 592 | 3,692 | 28,682 |
| 2006 | ^a | | 7,339 | 16,454 | 1,038 | 3,813 | 28,644 |
| 2007 | ^a | | 8,337 | 11,370 | 1,380 | 4,326 | 25,413 |
| 2008 | ^a | | 5,834 | 6,805 | 437 | 2,843 | 15,919 |
| 2009 | ^a | | 3,655 | 4,713 | 829 | 2,152 | 11,349 |
| 2010 | ^a | | 2,588 | 6,306 | 854 | 1,076 | 10,824 |
| 2011 | | | 2,710 | 5,914 | 76 | 1,012 | 9,712 |
| 2012 | | | 203 | 2,525 | 0 | 292 | 3,020 |
| 2001-2010 Ave | 1,466 | 8,663 | 7,840 | 11,759 | 900 | 2,847 | 23,346 |
| 2006-2010 Ave | | | 5,551 | 9,130 | 908 | 2,842 | 18,430 |

^a Hatchery contribution no longer available. Creel program concluded in 2005.

Table 24.–Contribution of hatchery-reared Chinook salmon to the sport harvest at Willow Creek and the escapements at Willow and Deception creeks, 2005-2012.

| Year | Brood Year (Age) | Willow Creek | | | | | | Deception Creek | | |
|-------------------|---------------------|----------------------|---------|----------------------|-------------------------|---------|----------------------|-------------------------|---------|----------------------|
| | | Harvest ^a | | | Escapement ^b | | | Escapement ^b | | |
| | | n | # Recov | Contrib ^c | n | # Recov | Contrib ^c | n | # Recov | Contrib ^c |
| 2005 | 2000- (0.4) | | 63 | 7.0% | | 0 | 0.0% | | ND | ND |
| | 2001- (0.3) | | 272 | 29.9% | | 2 | 0.9% | | ND | ND |
| | 2002- (0.2) | | 6 | 0.7% | | 0 | 0.0% | | ND | ND |
| | 2002- (1.1) | | 2 | 0.2% | | 0 | 0.0% | | ND | ND |
| | 2003- (0.1) | | 18 | 2.0% | | 0 | 0.0% | | ND | ND |
| | Total | 965 | 361 | 39.8% ^d | 331 | 2 | 0.9% ^d | 174 | 113 | 64.9% ^e |
| 2006 ^f | 2001- (0.4) | | ND | ND | | 1 | 0.4% | | ND | ND |
| | 2002- (0.3) | | ND | ND | | 0 | 0.0% | | ND | ND |
| | 2003- (1.1) | | ND | ND | | 1 | 0.4% | | ND | ND |
| | 2003- (0.1) | | ND | ND | | 1 | 0.4% | | ND | ND |
| | | Total | ND | ND | ND | 277 | 3 | 1.1% ^d | 248 | 151 |
| 2007 | 2003- (1.2) | | ND | ND | | 1 | 0.7% | | | |
| | Total | ND | ND | ND | 274 | 1 | 0.7% ^d | 258 | 175 | 67.8% ^e |
| 2008 | | ND | ND | ND | 118 | 3 | 2.5% | 156 | 105 | 67.3% ^e |
| 2009 | | ND | ND | ND | 117 | 4 | 3.4% | 96 | 46 | 50.0% ^e |
| 2010 | | ND | ND | ND | 104 | 2 | 1.9% | 25 | 7 | 28.0% ^e |
| 2011 | | ND | ND | ND | 101 | 1 | 1.0% | 8 | 4 | 50.0% ^e |
| 2012 | | ND | ND | ND | 66 | 3 | 4.5% | 44 | 9 | 20.5% ^e |

Note: n = the total number of fish sampled; # Recov = number of adipose fin clipped (hatchery reared) fish with coded wire tags recovered at the Tag Lab; Contrib = percent contribution; ND = no data because no attempts were made to collect it.

^a Creel survey.

^b Carcass sampling.

^c Percent contribution may differ from the quotient of number recovered to number sampled due to head or tag loss.

^d Sum of contribution by brood year. Tags from the heads of adipose clipped fish were decoded at the State Mark, Tag, and Age Lab in Juneau, AK.

^e Ratio of adipose clipped (marked) fish to total fish inspected during a carcass survey.

^f The Willow Creek creel survey was discontinued in 2006; no sport fish harvests on this stream were sampled that year.

Table 25.–Number of Chinook salmon smolt stocked in Willow Creek drainage, 1985-2012.

| Brood Year | Release location ^a | Total smolt release | No. coded wire tagged | Ave Weight (g) | Release Date |
|-------------------|-------------------------------|---------------------|-----------------------|----------------|-----------------|
| 1983 | Deception | 101,256 | 8,152 | 18.0 | 6/13/1985 |
| 1984 | Deception | 214,384 | 11,038 | 13.8 | 6/11-12/1985 |
| | Deception | 218,743 | 10,708 | 14.0 | 6/20/1985 |
| 1985 | Deception | 49,668 | 9,933 | 16.7 | 5/1/1986 |
| | Deception | 127,904 | 18,400 | 12.2 | 5/10/1986 |
| | Deception | 147,877 | | 11.4 | 5/10/1986 |
| | | <u>325,449</u> | <u>28,333</u> | | |
| 1987 | Deception | 201,091 | 20,936 | 10.9 | 7/12/1988 |
| 1988 | Deception | 240,885 | 19,851 | 13.0 | 5/31/1989 |
| 1989 | Deception | 219,362 | 41,570 | 14.4 | 5/24/1990 |
| | Deception | 219,432 | 40,575 | 13.4 | 5/24/1990 |
| | Deception | 216,697 | 40,438 | 13.9 | 5/24/1990 |
| | | <u>655,491</u> | <u>122,583</u> | | |
| 1990 | Deception | 168,777 | | 11.2 | 5/21/1991 |
| | Deception | 70,258 | 31,167 | 12.3 | 5/31/1991 |
| | Willow | 73,756 | | 12.3 | 5/28/1991 |
| | Willow | 78,878 | 31,167 | 12.3 | 5/30/1991 |
| | | <u>391,669</u> | <u>62,334</u> | | |
| 1991 | Deception | 179,724 | 33,464 | 13.5 | 5/29/1992 |
| | Deception | 35,752 | | 14.5 | 6/9/1992 |
| | | <u>215,476</u> | <u>33,464</u> | | |
| 1992 | Deception | 160,194 | 39,420 | 14.9 | 6/1/1993 |
| 1993 | Deception | 177,913 | 45,921 | 13.3 | 5/24-25/1994 |
| 1994 | Deception | 184,740 | 46,256 | 13.5 | 5/25/1995 |
| 1995 | Deception | 186,918 | 47,145 | 14.4 | 6/12-17/1996 |
| 1996 | Deception | 209,944 | 207,973 | 12.2 | 6/11-20/1997 |
| 1997 | Deception | 197,392 | 195,615 | 11.5 | 6/17-26/1998 |
| 1998 | Deception | 201,586 | 199,772 | 11.5 | 6/14,16,17/1999 |
| 1999 ^b | Deception | 7,500 | | | |
| | Deception | 198,996 | | | |
| | | <u>206,946</u> | <u>205,051</u> | 12.6 | 6/2,13,14/2000 |
| 2000 | Deception | 207,465 | 204,560 | 14.2 | 6/18,19/2001 |
| 2001 | Deception | 197,277 | 196,608 | 12.1 | 6/21,24/2002 |
| 2002 | Deception | 100,635 | 101,407 | 14.5 | 6/19/2003 |
| | Deception | 113,523 | 104,101 | 12.2 | 6/8/2004 |
| | | <u>214,158</u> | <u>205,508</u> | | |
| 2003 | Deception | 99,047 | 97,660 | 15.7 | 6/9/2004 |
| | Deception | 163,016 | 162,415 | 12.6 | 6/6/2005 |
| | | <u>262,063</u> | <u>260,075</u> | | |
| 2004 | Deception | 50,426 | 50,376 | 12.5 | 6/8/2006 |
| 2005 | Deception | 103,016 | 103,016 | 9.5 | 5/29/2007 |
| 2006 | Deception | 112,219 | 111,321 | 11.0 | 6/16/2008 |
| 2007 | Deception | 111,322 | 111,322 | 6.8 | 6/4/2009 |
| 2008 | Deception | 155,125 | 155,125 | 8.4 | 5/27/2010 |
| 2009 | Deception | 47,428 | 47,428 ^c | 12.7 | 7/6/2011 |
| | Deception | 92,838 | 0 ^c | 12.4 | 7/6/2011 |
| | | <u>140,266</u> | | | |
| 2010 | Deception | 151,220 | | 17.0 | 7/9/2012 |

^a Prior to 1996 the Deception Creek release site was at the mouth of Deception Creek. Beginning in 1996 the release site was at the Four Mile Road crossing.

^b In 2000 the stocking truck got stuck on Four Mile Road. Approximately 7,500 smolt were bucketed to Deception Creek at Four Mile Road, the remaining smolt were released at Hatcher Pass Road Bridge near the mouth of Deception Creek.

^c Number of fish adipose clipped and thermal marked.

Table 26.—Eastside Susitna River drainage Chinook salmon harvest by fishery, 1977-2012.

| Year | Willow Creek | Lt. Willow Creek | Kashwitna River | Caswell Creek | Sheep Creek | Goose Creek | Montana Creek | Birch Creek | Sunshine Creek | Talkeetna River ^a | Other ^b | Total |
|-----------|--------------|------------------|-----------------|---------------|-------------|-------------|---------------|-------------|----------------|------------------------------|--------------------|--------|
| 1977 | 137 | 16 | | | 259 | | 415 | | | 25 | 204 | 1,056 |
| 1978 | 47 | 0 | | | 256 | | 408 | | | 12 | 163 | 886 |
| 1979 | 459 | 0 | | 156 | 10 | | 312 | | 10 | 312 | 39 | 1,298 |
| 1980 | 289 | 32 | | 215 | 45 | | 559 | | 13 | 172 | 45 | 1,370 |
| 1981 | 585 | 0 | | 249 | 0 | | 661 | | 57 | 373 | 277 | 2,202 |
| 1982 | 629 | 0 | | 471 | 0 | | 241 | | 52 | 450 | 220 | 2,063 |
| 1983 | 534 | 0 | 231 | 272 | 0 | | 504 | | 105 | 934 | 272 | 2,852 |
| 1984 | 774 | 37 | 0 | 586 | 0 | 0 | 1,522 | | 125 | 1,272 | 112 | 4,428 |
| 1985 | 1,063 | 25 | | 527 | 0 | | 979 | | 771 | 871 | 106 | 4,342 |
| 1986 | 1,017 | 872 | 73 | 327 | 1,778 | 145 | 2,796 | 290 | 327 | 908 | 36 | 8,569 |
| 1987 | 1,987 | 711 | 116 | 88 | 1,610 | 334 | 1,726 | 44 | 319 | 1,639 | 29 | 8,603 |
| 1988 | 2,349 | 937 | 0 | 578 | 1,847 | 218 | 1,070 | 28 | 303 | 1,762 | 47 | 9,139 |
| 1989 | 2,846 | 507 | 11 | 357 | 1,116 | 385 | 1,708 | 28 | 368 | 2,372 | 85 | 9,783 |
| 1990 | 3,237 | 387 | 6 | 330 | 1,537 | 504 | 478 | | 465 | 2,358 | 121 | 9,423 |
| 1991 | 3,208 | 684 | 41 | 305 | 1,519 | 288 | 575 | 47 | 230 | 2,025 | 161 | 9,083 |
| 1992 | 8,884 | 1,023 | 16 | 592 | 2,663 | 1,033 | 3,078 | 101 | 365 | 3,338 | 214 | 21,307 |
| 1993 | 8,626 | 1,200 | 38 | 531 | 2,300 | 633 | 4,054 | 9 | 280 | 4,729 | 288 | 22,688 |
| 1994 | 5,980 | 745 | 78 | 562 | 1,349 | 361 | 3,111 | 108 | 297 | 2,144 | 235 | 14,970 |
| 1995 | 2,742 | 436 | 18 | 397 | 746 | 226 | 1,004 | 0 | 132 | 2,126 | 45 | 7,872 |
| 1996 | 2,690 | 896 | 21 | 128 | 1,397 | 437 | 1,612 | 22 | 53 | 3,585 | 182 | 11,023 |
| 1997 | 3,135 | 699 | 10 | 30 | 550 | 298 | 2,181 | 30 | 53 | 3,800 | 203 | 10,989 |
| 1998 | 2,793 | 546 | 15 | 226 | 700 | 348 | 1,471 | 83 | 116 | 3,846 | 328 | 10,472 |
| 1999 | 4,988 | 1,344 | 83 | 142 | 2,558 | 371 | 3,279 | 134 | 11 | 3,701 | 264 | 16,875 |
| 2000 | 3,782 | 578 | 160 | 561 | 851 | 258 | 1,728 | 223 | 472 | 2,740 | 421 | 11,774 |
| 2001 | 4,573 | 941 | 74 | 238 | 1,420 | 160 | 2,646 | 65 | 93 | 2,866 | 428 | 13,504 |
| 2002 | 3,591 | 580 | 217 | 115 | 928 | 403 | 2,026 | 35 | 38 | 2,616 | 146 | 10,695 |
| 2003 | 3,922 | 510 | 373 | 26 | 1,284 | 350 | 1,242 | 167 | 154 | 1,276 | 195 | 9,499 |
| 2004 | 2,818 | 445 | 125 | 23 | 914 | 335 | 1,071 | 0 | 25 | 2,473 | 25 | 8,254 |
| 2005 | 2,466 | 621 | 112 | 394 | 878 | 150 | 1,328 | 287 | 205 | 1,960 | 52 | 8,453 |
| 2006 | 2,141 | 449 | 210 | 264 | 707 | 27 | 1,672 | 97 | 211 | 1,561 | 0 | 7,339 |
| 2007 | 2,258 | 870 | 223 | 190 | 964 | 31 | 1,294 | 0 | 0 | 2,476 | 31 | 8,337 |
| 2008 | 1,101 | 505 | 237 | 30 | 589 | 134 | 1,188 | 46 | 431 | 1,479 | 94 | 5,834 |
| 2009 | 499 | 85 | 212 | 17 | 393 | 0 | 257 | 0 | 0 | 1,982 | 210 | 3,655 |
| 2010 | 218 | 169 | 214 | 0 | 153 | 0 | 371 | 26 | 56 | 1,013 | 368 | 2,588 |
| 2011 | 282 | 33 | 172 | 0 | 213 | 0 | 362 | 0 | 16 | 1,087 | 545 | 2,710 |
| 2012 | 13 | 0 | 8 | 0 | 0 | 0 | 13 | 0 | 0 | 113 | 56 | 203 |
| 2006-2010 | | | | | | | | | | | | |
| Average | 1,019 | 407 | 222 | 59 | 525 | 41 | 778 | 18 | 122 | 1,738 | 176 | 5,104 |

^a Talkeetna River and tributaries including Clear Creek.

^b Includes lakes and streams.

Table 27.--Northern Cook Inlet Management Area Chinook salmon escapement index counts (aerial), 1979-2012.

| Year | Susitna River | | | Knik Arm | West Cook Inlet | Total NCIMA |
|---------------|---------------|----------|--------|----------|-----------------|-------------|
| | Eastside | Westside | Total | | | |
| 1979 | 5,082 | 39,552 | 44,634 | 253 | 2,540 | 47,427 |
| 1980 | No Data | | | | | |
| 1981 | 7,419 | 2,025 | 9,444 | 238 | 3,601 | 13,283 |
| 1982 | 10,700 | 25,224 | 35,924 | 406 | 7,384 | 43,714 |
| 1983 | 17,859 | 42,850 | 60,709 | 1,381 | 5,562 | 67,652 |
| 1984 | 25,678 | 27,974 | 53,652 | 1,099 | 5,043 | 59,794 |
| 1985 | 18,177 | 38,932 | 57,109 | 1,480 | 4,619 | 63,208 |
| 1986 | 15,828 | 32,330 | 48,158 | 419 | 6,114 | 54,691 |
| 1987 | 26,535 | 23,936 | 50,471 | 2,343 | 2,423 | 55,237 |
| 1988 | 26,255 | 40,963 | 67,218 | 4,269 | 5,546 | 77,033 |
| 1989 | 23,117 | 4,818 | 27,935 | 999 | 2,468 | 31,402 |
| 1990 | 25,040 | 28,042 | 53,082 | 1,467 | 1,329 | 55,878 |
| 1991 | 21,773 | 19,425 | 41,198 | 1,596 | 1,348 | 44,142 |
| 1992 | 15,782 | 18,899 | 34,681 | 2,400 | 2,835 | 39,916 |
| 1993 | 13,066 | 18,028 | 31,094 | 175 | 3,882 | 35,151 |
| 1994 | 11,904 | 9,423 | 21,327 | 2,115 | 2,121 | 25,563 |
| 1995 | 21,778 | 15,828 | 37,606 | 2,202 | 2,223 | 42,031 |
| 1996 | 22,084 | 16,802 | 38,886 | 1,731 | 2,392 | 43,009 |
| 1997 | 35,927 | 38,437 | 74,364 | 652 | 5,087 | 80,103 |
| 1998 | 24,393 | 32,958 | 57,351 | 1,305 | 4,805 | 63,461 |
| 1999 | 24,306 | 30,260 | 54,566 | 744 | 7,812 | 63,122 |
| 2000 | 20,161 | 11,137 | 31,298 | 1,292 | 3,964 | 36,554 |
| 2001 | 23,047 | 15,102 | 38,149 | 1,513 | 4,394 | 44,056 |
| 2002 | 35,137 | 28,066 | 63,203 | 1,970 | 3,649 | 68,822 |
| 2003 | 15,341 | 24,294 | 39,635 | 1,585 | 4,974 | 46,194 |
| 2004 | 22,567 | 54,421 | 76,988 | 1,891 | 5,038 | 83,917 |
| 2005 | 21,780 | 27,774 | 49,554 | 2,349 | 2,730 | 54,633 |
| 2006 | 16,934 | 23,074 | 40,008 | 2,071 | 4,206 | 46,285 |
| 2007 | 23,229 | 18,645 | 41,874 | 2,061 | 2,439 | 46,374 |
| 2008 | 10,789 | 5,609 | 16,398 | 1,681 | 1,051 | 19,130 |
| 2009 | 12,686 | 9,971 | 22,657 | 1,229 | 1,622 | 25,508 |
| 2010 | 7,449 | 3,293 | 10,742 | 731 | 993 | 12,466 |
| 2011 | 8,936 | 13,324 | 22,260 | 1,062 | 659 | 23,981 |
| 2012 | 6,388 | 4,148 | 10,536 | 1317 | 972 | 12,825 |
| 1979-2010 Ave | 19,414 | 23,487 | 42,900 | 1,472 | 3,684 | 48,057 |
| 2001-2010 Ave | 18,435 | 21,683 | 40,118 | 1,730 | 2,967 | 44,814 |
| 2006-2010 Ave | 13,538 | 9,380 | 22,918 | 1,426 | 1,526 | 25,870 |

Table 28.—Eastside Susitna River Management Unit Chinook salmon escapement index counts (aerial), 1979-2012.

| Year | Willow Creek ^a | | Deception Creek | | Little Willow Creek | | Sheep Creek | Goose Creek | Montana Creek | Clear Creek | Prairie Creek | Chulitna River | Portage Creek | Indian River | Kashwitna River | Other ^b | Total |
|------|---------------------------|--------------------|-----------------|-----------------|---------------------|-----------------|-------------|--------------------|---------------|-------------|--------------------|------------------|---------------|--------------|-----------------|--------------------|--------|
| | Total | Nonhatch | Willow Creek | Deception Creek | | | | | | | | | | | | | |
| 1979 | 848 | 239 | | 327 | 778 | | | 1,094 ^d | 864 | | | | 190 | 285 | 457 | | 5,082 |
| 1980 | | | | | | | | | | | | | | | | | 0 |
| 1981 | 991 | 366 | | 459 | 1,013 | 262 | | 814 | | 1,875 | | | 659 | 422 | 558 | | 7,419 |
| 1982 | 592 | 229 ^e | | 316 | 527 | 140 | | 887 ^d | 982 | 3,844 | 863 | 1,111 | 1,053 | 156 | 268 | | 10,700 |
| 1983 | 777 | 121 ^e | | 1,042 | 975 | 477 | | 1,641 ^d | 938 | 3,200 | 4,058 | 3,140 | 1,193 | 297 | | | 17,859 |
| 1984 | 2,789 | 675 ^e | | | 1,028 | 258 | | 2,309 ^d | 1,520 | 9,000 | 4,191 | 2,341 | 1,456 | 111 | | | 25,678 |
| 1985 | 1,856 | 1,044 ^e | | 1,305 | 1,634 | 401 | | 1,767 ^d | 2,430 | 6,500 | 783 | | | 457 | 4,066 | | 18,177 |
| 1986 | 2,059 | 521 ^e | 364 | 2,133 | 1,285 | 630 | | | | 8,500 | | | | 700 | | | 15,828 |
| 1987 | 2,768 | 692 ^e | 518 | 1,320 | 895 | 416 | | 1,320 ^d | | 9,138 | 5,252 | 2,616 | 1,246 | 872 | | | 26,535 |
| 1988 | 2,496 | 790 ^e | 537 | 1,515 | 1,215 | 1,076 | | 2,016 ^d | 4,850 | 9,280 | | 1,402 | 456 | 1,159 | | | 26,255 |
| 1989 | 5,060 | 800 ^e | 623 | 1,325 | 610 | 835 | | 2,701 ^d | | 9,463 | | 1,309 | 659 | 355 | | | 23,117 |
| 1990 | 2,365 | 700 ^e | 420 | 1,115 | 634 | 552 | | 1,269 | 2,380 | 9,113 | 2,681 | 1,886 | 1,473 | 872 | | | 25,040 |
| 1991 | 2,006 | 747 ^e | 515 | 498 | 154 ^g | 968 | | 1,215 | 1,974 | 6,770 | 4,410 | 1,223 | 1,468 | 340 | | | 21,773 |
| 1992 | 1,660 | 983 ^e | 423 | 673 | | 369 | | 1,560 | 1,530 | 4,453 | 2,527 | 1,078 | 479 | 470 | | | 15,782 |
| 1993 | 2,227 | 1,011 ^e | 502 | 705 | | 347 | | 1,281 | 886 | 3,023 | 2,070 | 629 | 362 | 525 | | | 13,066 |
| 1994 | 1,479 | 766 | 388 | 712 | 542 | 375 | | 1,143 | 1,204 | 2,254 | 1,806 | 857 | 336 | 430 | | | 11,904 |
| 1995 | 3,792 | 834 | 445 | 1,210 | 1,049 | 374 | | 2,110 | 1,928 | 3,884 | 3,460 | 1,505 | 796 | 836 | | | 21,778 |
| 1996 | 1,776 | 1,211 | 654 | 1,077 | 1,028 | 305 | | 1,841 | 2,091 | 5,037 | 4,172 | 2,185 | 579 | 782 | | | 22,084 |
| 1997 | 4,841 | 1,340 | | 2,390 | | 308 | | 3,073 | 5,100 | 7,710 | 5,618 | 3,086 | 1,700 | 761 | | | 35,927 |
| 1998 | 3,500 | 1,273 | 699 | 1,782 | 1,160 | 415 | | 2,936 | 3,894 | 4,465 | 2,586 | 1,261 | 502 | 619 | | | 24,393 |
| 1999 | 2,081 | 1,000 | 801 | 1,837 | | 268 | | 2,088 | 2,216 | 5,871 | 5,455 | 1,797 | 1,049 | 644 | | | 24,306 |
| 2000 | 2,601 | 1,563 | 828 | 1,121 | 1,162 | 348 | | 1,271 | 2,142 | 3,790 | 4,218 | 1,015 | 601 | 329 | | | 20,161 |
| 2001 | 3,188 | 1,975 | 943 | 2,084 | | | | 1,930 | 2,096 | 5,191 | 2,353 ^g | 2,334 | 1,292 | 604 | | | 23,047 |
| 2002 | 2,758 | 1,000 | 123 | 1,680 | 854 | 565 | | 2,357 | 3,496 | 7,914 | 9,002 | 3,336 | 1,126 | 1,049 | | | 35,137 |
| 2003 | 3,964 | 914 | 288 | 879 | | 175 | | 2,576 | | 4,095 | | 827 ^d | 1,365 | 546 | | | 15,341 |
| 2004 | 2,985 | 480 | 170 | 2,227 | 285 | 417 | | 2,117 | 3,417 | 5,570 | 2,162 | 1,972 | 593 | 342 | 652 | | 22,567 |
| 2005 | 2,463 | 1,806 | 634 | 1,784 | 760 | 468 | | 2,600 | 1,924 | 3,862 | 2,838 | 2,151 | 670 | 454 | 83 | | 21,780 |
| 2006 | 2,217 | 940 | 368 | 816 | 580 | 306 | | 1,850 | 1,520 | 3,570 | 2,862 | 942 | 718 | 613 | | | 16,934 |
| 2007 | 1,373 | 604 | 194 | 1,103 | 400 | 105 | | 1,936 | 3,310 | 5,036 | 5,166 | 2,284 | 1,017 | 895 | | | 23,229 |
| 2008 | 1,255 ^g | 255 ^g | | | | 117 | | 1,357 | 1,795 | 3,039 | 2,514 | 169 | 288 | | | | 10,789 |
| 2009 | 1,133 | | | 776 | 500 | 65 ^l | | 1,460 | 1,205 | 3,500 | 2,093 | 1,228 | 409 | 317 | | | 12,686 |

-continued-

Table 28.–Page 2 of 2.

| Year | Willow Creek ^a | Deception Creek | | Little Willow Creek | Sheep Creek | Goose Creek | Montana Creek | Clear Creek | Praire Creek | Chulitna River | Portage Creek | Indian River | Kashwitna River | Other ^b | Total |
|------------------|---------------------------|----------------------|----------|---------------------|--------------|-----------------|---------------|-------------|--------------|----------------|---------------|--------------|-----------------|--------------------|--------|
| | | Total | Nonhatch | | | | | | | | | | | | |
| 2010 | 1,173 | | | 468 | ^c | 76 ^j | 755 | 903 | 3,022 | 1,052 | | | | ^c | 7,449 |
| 2011 | 1,061 | 180 | | 713 | 350 | 80 | 494 | 512 | 2,038 | 1,875 | 1,217 | 282 | 134 | | 8,936 |
| 2012 | 756 | 349 | | 494 | 363 | 57 | 416 | 1,177 | 1,185 | 667 | 501 | 338 | 85 | | 6,388 |
| 1979-2010 Ave | 2,293 | 858 | 497 | 1,196 | 829 | 394 | 1,776 | 2,177 | 5,399 | 3,368 | 1,590 | 843 | 571 | 1,267 | 18,807 |
| 2001-2010 Ave | 2,147 | 857 | 296 | 1,217 | 563 | 255 | 1,890 | 2,196 | 4,401 | 3,461 | 1,614 | 773 | 602 | 368 | 18,435 |
| 2006-2010 Ave | 1,234 | 430 | 194 | 782 | 450 | 91 | 1,377 | 1,803 | 3,649 | 2,706 | 1,227 | 571 | 606 | | 13,538 |
| SEG ^h | 1,600-2,800 | 350-700 ⁱ | | 450-1,800 | 600-1,200 | 250-650 | 1,100-3,100 | 950-3,400 | 3,100-9,200 | 1,800-5,100 | | | | | |

^a Includes hatchery fish.

^b May include Honolulu, Byers, Troublesome, Bunco, Birch, Sunshine, Larson creeks.

^c No counts conducted due to poor water visibility.

^d Foot survey.

^e Combination of foot surveys and weir counts.

^f Included with other streams.

^g Poor count due to timing, poor visibility or weather conditions.

^h SEG = Sustainable Escapement Goal.

ⁱ Deception Creek SEG discontinued after 2005.

^j Beaver dam blocks fish passage.

Table 29.–Westside Susitna River drainage Chinook salmon harvest by fishery, 1977-2012.

| Year | Alexander Creek | Deshka River | Rabideux Creek | Yentna River | Peters Creek | Lake Creek | Fish Creek ^a | Talachulitna River | Other Streams ^b | Other Lakes ^b | Total |
|---------------|--------------------|-----------------|-------------------|-----------------|-----------------|---------------|----------------------------|-----------------------|-------------------------------|-----------------------------|--------|
| 1977 | 820 | 1,017 | | | | 464 | | 224 | 413 | 0 | 2,938 |
| 1978 | 769 | 850 | | | | 326 | | 12 | 82 | 0 | 2,039 |
| 1979 | 712 | 2,811 | | | | 1,796 | | 293 | 156 | 0 | 5,768 |
| 1980 | 1,438 | 3,685 | | | | 775 | | 121 | 129 | 0 | 6,148 |
| 1981 | 1,121 | 2,769 | | | | 795 | | 57 | 0 | 0 | 4,742 |
| 1982 | 2,506 | 4,307 | | | | 1,645 | | 0 | 115 | 0 | 8,573 |
| 1983 | 1,711 | 4,889 | | | | 2,423 | | 336 | 209 | 0 | 9,568 |
| 1984 | 2,107 | 5,699 | | | 112 | 2,881 | | 424 | 709 | 174 | 12,106 |
| 1985 | 2,761 | 6,407 | | | | 2,575 | | 224 | 1,677 | 0 | 13,644 |
| 1986 | 2,937 | 6,490 | | | | 2,134 | 647 | 201 | 948 | 45 | 13,402 |
| 1987 | 2,224 | 5,632 | | | | 3,282 | 834 | 116 | 1,252 | 10 | 13,350 |
| 1988 | 4,687 | 5,474 | | | 549 | 2,784 | 729 | 909 | 829 | 9 | 15,970 |
| 1989 | 4,882 | 8,062 | 12 | 215 | 339 | 3,554 | 1,202 | 403 | 656 | 18 | 19,343 |
| 1990 | 5,119 | 6,161 | 55 | 178 | 385 | 3,423 | 740 | 709 | 631 | 24 | 17,425 |
| 1991 | 6,548 | 9,306 | | 301 | 495 | 2,712 | 660 | 848 | 942 | 24 | 21,836 |
| 1992 | 4,124 | 7,256 | 23 | 652 | 655 | 3,668 | 879 | 445 | 867 | 168 | 18,737 |
| 1993 | 5,154 | 5,682 | | 653 | 283 | 6,425 | 1,148 | 875 | 922 | 0 | 21,142 |
| 1994 | 3,070 | 624 | | 402 | 202 | 3,548 | 930 | 927 | 545 | 0 | 10,248 |
| 1995 | 1,217 | 0 | | 425 | 252 | 2,838 | 545 | 509 | 479 | 0 | 6,265 |
| 1996 | 1,005 | 11 | | 320 | 74 | 2,587 | 415 | 697 | 770 | 0 | 5,879 |
| 1997 | 1,470 | 42 | | 315 | 34 | 3,777 | 557 | 778 | 826 | 0 | 7,799 |
| 1998 | 1,275 | 3,384 | | 350 | | 2,511 | 840 | 563 | 793 | 0 | 9,716 |
| 1999 | 2,241 | 3,496 | | 939 | 197 | 3,037 | 1,188 | 977 | 56 | 0 | 12,131 |
| 2000 | 2,721 | 7,076 | | 838 | 236 | 4,611 | 742 | 695 | 422 | 0 | 17,341 |
| 2001 | 2,313 | 5,007 | | 648 | 88 | 4,067 | 965 | 409 | 417 | 0 | 13,914 |
| 2002 | 1,992 | 4,508 | | 559 | 52 | 2,878 | 761 | 508 | 99 | 0 | 11,357 |
| 2003 | 2,293 | 6,605 | | 277 | 122 | 4,467 | 371 | 587 | 313 | 0 | 15,035 |
| 2004 | 1,294 | 9,050 | 12 | 523 | 85 | 3,657 | 390 | 344 | 293 | 0 | 15,648 |
| 2005 | 1,052 | 7,332 | | 963 | 0 | 4,508 | 307 | 800 | 915 | 68 | 15,945 |
| 2006 | 1,396 | 7,753 | 40 | 1,964 | 33 | 4,070 | 103 | 452 | 643 | 0 | 16,454 |
| 2007 | 412 | 5,696 | 0 | 827 | 465 | 2,881 | 68 | 1021 | 0 | 0 | 11,370 |
| 2008 | 0 | 2,036 | 0 | 1,009 | 220 | 2,756 | 89 | 435 | 260 | 0 | 6,805 |
| 2009 | 0 | 723 | 35 | 863 | 148 | 2,273 | 174 | 258 | 239 | 0 | 4,713 |
| 2010 | - | 3,381 | 16 | 722 | 36 | 1,644 | 41 | 323 | 143 | 16 | 6,322 |
| 2011 | 0 | 3,139 | 10 | 834 | 61 | 1,392 | 51 | 393 | 34 | 0 | 5,914 |
| 2012 | 0 | 1,650 | 0 | 118 | 0 | 602 | 0 | 17 | 138 | 0 | 2,525 |
| 2006-2010 Ave | 103 | 2,959 | 13 | 855 | 217 | 2,389 | 93 | 509 | 161 | 4 | 7,303 |

^a Fish Lake drainage (Yentna River drainage).

^b May include harvest from West Cook Inlet waters through 1998.

Table 30.–Westside Susitna River Management Unit Chinook salmon escapement index counts, 1979–2012.

| Year | Deshka River | | | | Lake Creek | Talachulitna River | Cache Creek | Other Streams ^b | Aerial Total |
|-----------------|--------------------------|--------------------|----------------------------|--------------------------|--------------------------|--------------------|--------------|----------------------------|--------------|
| | Alexander Creek | Aerial index | Weir ^a | Peters Creek | | | | | |
| 1979 | 6,215 | 27,385 | NA | 108 | 4,196 | 1,648 | ^c | ND | 39,552 |
| 1980 | ^c | ^c | NA | ^c | ^c | ^c | ^c | ND | ND |
| 1981 | ^c | ^c | NA | ^c | ^c | 2,025 | ^c | ND | 2,025 |
| 1982 | 2,546 | 16,000 | NA | ^c | 3,577 | 3,101 | ^c | ND | 25,224 |
| 1983 | 3,755 | 19,237 | NA | 2,272 | 7,075 | 10,014 | 497 | ND | 42,850 |
| 1984 | 4,620 | 16,892 | NA | 324 | ^c | 6,138 | ^c | ND | 27,974 |
| 1985 | 6,241 | 18,151 | NA | 2,901 | 5,803 | 5,145 | 206 | 485 | 38,932 |
| 1986 | 5,225 | 21,080 | NA | 1,915 | ^c | 3,686 | 424 | ND | 32,330 |
| 1987 | 2,152 | 15,028 | NA | 1,302 | 4,898 | ^c | 556 | ND | 23,936 |
| 1988 | 6,273 | 19,200 | NA | 3,927 | 6,633 | 4,112 | 818 | ND | 40,963 |
| 1989 | 3,497 | ^c | NA | 959 | ^c | ^c | 362 | ND | 4,818 |
| 1990 | 2,596 | 18,166 | NA | 2,027 | 2,075 | 2,694 | 484 | ND | 28,042 |
| 1991 | 2,727 | 8,112 ^d | NA | 2,458 | 3,011 | 2,457 | 499 | 161 | 19,425 |
| 1992 | 3,710 | 7,736 | NA | 996 | 2,322 | 3,648 | 487 | ND | 18,899 |
| 1993 | 2,763 | 5,769 | NA | 1,668 | 2,869 | 3,269 | 1,690 | ND | 18,028 |
| 1994 | 1,514 | 2,665 | NA | 573 | 1,898 | 1,575 | 628 | 570 | 9,423 |
| 1995 | 2,090 | 5,150 | 10,048 | 1,041 | 3,017 | 2,521 | 1,601 | 408 | 15,828 |
| 1996 | 2,319 | 6,343 | 14,349 | 749 | 3,514 | 2,748 | 581 | 548 | 16,802 |
| 1997 | 5,598 | 19,047 | 35,587 | 2,637 | 3,841 | 4,494 | 1,774 | 1,046 | 38,437 |
| 1998 | 2,807 | 15,556 | 15,409 ^e | 4,367 | 5,056 | 2,759 | 1,771 | 642 | 32,958 |
| 1999 | 3,974 | 12,904 | 29,649 | 3,298 | 2,877 | 4,890 | 1,720 | 597 | 30,260 |
| 2000 | 2,331 ^d | ^c | 35,242 | 1,648 | 4,035 | 2,414 | 709 | ND | 11,137 |
| 2001 | 2,282 | ^c | 29,004 | 4,226 | 4,661 | 3,309 | 624 | ND | 15,102 |
| 2002 | 1,936 | 8,749 | 29,428 | 2,959 | 4,852 | 7,824 | 671 | 1,075 | 28,066 |
| 2003 | 2,012 | ^c | 39,496 | 3,998 | 8,153 | 9,573 | 558 | ND | 24,294 |
| 2004 | 2,215 | 28,778 | 57,934 | 3,757 | 7,598 | 8,352 | 212 | 3,509 | 54,421 |
| 2005 | 2,140 | 11,495 | 37,725 | 1,508 | 6,345 | 4,406 | 1,460 | 420 | 27,774 |
| 2006 | 885 | 6,499 ^d | 31,150 | 1,114 | 5,300 | 6,152 | 1,230 | 1,894 | 23,074 |
| 2007 | 480 | 6,712 | 18,714 | 1,225 | 4,081 | 3,871 | 551 | 1,725 | 18,645 |
| 2008 | 150 ^d | ^c | 7,533 | ^c | 2,004 | 2,964 | ^c | 491 | 5,609 |
| 2009 | 275 | 3,954 | 11,967 | 1,283 | 1,394 | 2,608 | ^c | 457 | 9,971 |
| 2010 | 177 | ^c | 18,594 | ^c | 1,617 | 1,499 | ^c | 209 | 3,502 |
| 2011 | 343 | 7,522 | 18,968 | 1,103 | 2,563 | 1,368 | 27 | 398 | 13,324 |
| 2012 | 181 | 0 | 14,096 | 459 | 2,366 | 847 | 87 | 440 | 4,380 |
| 1979-2010 Ave | 2,850 | 13,359 | 26,364 | 2,046 | 4,174 | 4,134 | 838 | 890 | 23,494 |
| 2001-2010 Ave | 1,141 | 11,031 | 28,060 | 2,263 | 4,594 | 5,250 | 780 | 1,223 | 21,706 |
| 2006-2010 Ave | 271 | 5,333 | 14,202 | 1,254 | 2,274 | 2,736 | 551 | 721 | 9,432 |
| Escapement Goal | 2,100-6,000 ^f | ^g | 13,000-28,000 ^h | 1,000-2,600 ^f | 2,500-7,100 ^f | ^f | 2,200-5,000 | | |

Note: NA = not applicable; ND = no data because no attempts were made to collect it.

^a No weir on the Deshka River prior to 1995. Weir count, not an actual escapement count.

^b May include Donkey Creek, Red Creek, Red Salmon Creek, Canyon Creek, and other miscellaneous creeks.

^c No count due to poor water visibility.

^d Low count due to timing, poor visibility, or weather conditions.

^e High water delayed the deployment of the weir until June 16, 1998. Therefore, this weir count is low and may represent only half of the return.

^f Sustainable Escapement Goal (SEG) established in 2001 (Bue and Hasbrouck Unpublished).

^g Aerial escapement goals for Deska River Chinook salmon: 11,200 fish (1994-1998); 8,750 fish (1999-2001); and discontinued thereafter (2002-2009).

^h Weir based Biological Escapement Goal (BEG) established in 2001 (Bue and Hasbrouck Unpublished).

Table 31.–West Cook Inlet drainage Chinook salmon harvest by fishery, 1977-2012.

| Year | Chuitna River | Beluga River | Theodore River | Lewis River | Susitna R.– N. Foreland | South of N. Foreland | Other Sites | Total |
|---------------|---------------|--------------|----------------|-------------|-------------------------|----------------------|-------------|-------|
| 1977 | 227 | | 237 | 9 | | | | 473 |
| 1978 | 408 | | 58 | 12 | | | | 478 |
| 1979 | 78 | | 20 | 0 | | | | 98 |
| 1980 | 17 | | 17 | 0 | | | | 34 |
| 1981 | 115 | | 77 | | | | | 192 |
| 1982 | 105 | | 42 | | | | | 147 |
| 1983 | 1,185 | | 0 | | | | | 1,185 |
| 1984 | 723 | | 1,110 | | | | | 1,833 |
| 1985 | 734 | | 1,195 | 100 | | | | 2,029 |
| 1986 | 960 | | 1,418 | | | | | 2,378 |
| 1987 | 146 | | 1,146 | 185 | | | | 1,477 |
| 1988 | 312 | | 1,137 | 246 | | | | 1,695 |
| 1989 | 581 | 237 | 1,317 | 190 | | | | 2,325 |
| 1990 | 1,064 | | 748 | 285 | | | | 2,097 |
| 1991 | 377 | | 369 | 16 | | | | 762 |
| 1992 | 516 | 175 | 522 | | | | | 1,213 |
| 1993 | 893 | | 527 | 27 | | 100 | 408 | 1,955 |
| 1994 | 530 | | 581 | | | 6 | 466 | 1,583 |
| 1995 | 201 | | 360 | 0 | | 19 | 113 | 693 |
| 1996 | 844 | | 183 | 0 | 331 | 0 | 0 | 1,358 |
| 1997 | 728 | | 0 | 0 | 121 | 22 | 23 | 894 |
| 1998 | 551 | | 0 | 0 | 73 | 63 | 6 | 693 |
| 1999 | 561 | | 0 | 0 | 301 | 189 | 22 | 1,073 |
| 2000 | 513 | | 0 | | 182 | 468 | 0 | 1,163 |
| 2001 | 457 | | 21 | | 54 | 64 | 126 | 722 |
| 2002 | 629 | | 0 | 0 | 502 | 0 | 96 | 1,227 |
| 2003 | 592 | 51 | 13 | 0 | 194 | 144 | 130 | 1,124 |
| 2004 | 333 | 276 | 0 | 0 | 102 | 0 | 84 | 795 |
| 2005 | 294 | 105 | 0 | 0 | 24 | 92 | 77 | 592 |
| 2006 | 445 | 66 | 0 | 0 | 160 | 32 | 335 | 1,038 |
| 2007 | 984 | 143 | 0 | 0 | 33 | 47 | 173 | 1,380 |
| 2008 | 46 | 15 | 0 | 0 | 217 | 159 | 0 | 437 |
| 2009 | 109 | 51 | 0 | 0 | 112 | 204 | 353 | 829 |
| 2010 | 0 | 58 | 0 | 0 | 121 | 480 | 0 | 659 |
| 2011 | 0 | 0 | 0 | 0 | 0 | 54 | 22 | 76 |
| 2012 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006-2010 Ave | 285 | 67 | 0 | 0 | 121 | 223 | 132 | 826 |

Table 32.–West Cook Inlet Management Unit Chinook salmon escapement index counts, 1979-2012.

| Year | Chuitna River | Theodore River | Lewis River | Coal Creek | Other Streams ^a | Total WCI |
|------------------|---------------|----------------|----------------|------------------|----------------------------|-----------|
| 1979 | | 512 | 546 | | 236 | 2,540 |
| 1980 | ^b | | | | | |
| 1981 | 1,362 | 535 | 560 | | 1,144 | 3,601 |
| 1982 | 3,438 | 1,368 | 606 | | 1,972 | 7,384 |
| 1983 | 4,043 | 1,519 | | ^b | ^b | 5,562 |
| 1984 | 2,845 | 1,251 | 947 | | ^b | 5,043 |
| 1985 | 1,600 | 1,458 | 861 | | 700 | 4,619 |
| 1986 | 3,946 | 1,281 | 722 | | 165 | 6,114 |
| 1987 | ^b | 1,548 | 875 | | ^b | 2,423 |
| 1988 | 3,024 | 1,906 | 616 | | ^b | 5,546 |
| 1989 | 990 | 1,026 | 452 | | ^b | 2,468 |
| 1990 | 480 | 642 | 207 | | ^b | 1,329 |
| 1991 | 537 | 508 | 303 | | ^b | 1,348 |
| 1992 | 1,337 | 1,053 | 445 | | ^b | 2,835 |
| 1993 | 2,085 | 1,110 | 531 | | 156 | 3,882 |
| 1994 | 1,012 | 577 | 164 | | 368 | 2,121 |
| 1995 | 1,162 | 694 | 146 | 221 | | 2,223 |
| 1996 | 1,343 | 368 | 257 | 424 | | 2,392 |
| 1997 | 2,232 | 1,607 | 777 | 471 | | 5,087 |
| 1998 | 1,869 | 1,807 | 626 | 503 | | 4,805 |
| 1999 | 3,721 | 2,221 | 675 | 1195 | | 7,812 |
| 2000 | 1,456 | 1,271 | 480 | 757 | | 3,964 |
| 2001 | 1,501 | 1,237 | 502 | 1,154 | | 4,394 |
| 2002 | 1,394 | 934 | 439 | 882 | | 3,649 |
| 2003 | 2,339 | 1,059 | 878 | 698 | | 4,974 |
| 2004 | 2,938 | 491 | 1000 | 609 | | 5,038 |
| 2005 | 1,307 | 478 | 441 | 504 | | 2,730 |
| 2006 | 1,911 | 958 | 341 | 996 | | 4,206 |
| 2007 | 1,180 | 486 | 0 ^d | 773 | | 2,439 |
| 2008 | 586 | 345 | 120 | | | 1,051 |
| 2009 | 1,040 | 352 | 111 | 119 ^e | | 1,622 |
| 2010 | 735 | 202 | 56 | | | 993 |
| 2011 | 719 | 327 | 92 | 373 | | 1,511 |
| 2012 | 502 | 179 | 107 | 184 | | 972 |
| 1979-2010 Ave | 1,822 | 994 | 489 | 665 | 677 | 3,684 |
| 2001-2010 Ave | 1,492 | 589 | 376 | 654 | | 2,967 |
| 2006-2010 Ave | 885 | 346 | 72 | 446 | | 1,526 |
| SEG ^c | 1,200-2,900 | 500-1,700 | 250-800 | | | |

"-" = value can't be computed due to limitations of the data.

^a May include Olsen, Nikoli, Coal, Straight, Bishop, Drill, and Scarp creeks.

^b No count conducted, turbid water.

^c SEG = sustainable escapement goal.

^d River diverged into open muskeg 1/2 mile below bridge. No water in mainstem.

^e Mainstem too glacial to count. Only counted above forks.

Table 33.—Northern Cook Inlet Management Area recreational harvest of coho salmon by management unit, 1977–2012.

| Year | Northern Cook Inlet Management Area | | | | | South-central Region Total | % by NCIMA | Alaska Total | % by NCIMA |
|------------|-------------------------------------|---------------------|---------------------|-----------------------|------------------|----------------------------------|---------------|-----------------|---------------|
| | Knik Arm | Eastside Susitna | Westside Susitna | West Cook Inlet | Total Harvest | | | | |
| 1977 | 4,366 | 5,709 | 6,599 | 532 | 17,206 | 67,866 | 25 | 105,004 | 16 |
| 1978 | 7,895 | 8,573 | 10,173 | 378 | 27,019 | 81,990 | 33 | 131,945 | 20 |
| 1979 | 7,139 | 7,564 | 9,036 | 337 | 24,076 | 93,234 | 26 | 119,329 | 20 |
| 1980 | 16,030 | 10,368 | 12,141 | 628 | 39,167 | 127,958 | 31 | 164,302 | 24 |
| 1981 | 10,484 | 6,593 | 5,940 | 604 | 23,621 | 95,376 | 25 | 125,666 | 19 |
| 1982 | 13,676 | 10,167 | 10,658 | 745 | 35,246 | 136,153 | 26 | 195,644 | 18 |
| 1983 | 6,139 | 5,176 | 3,610 | 2,552 | 17,477 | 87,935 | 20 | 149,270 | 12 |
| 1984 | 23,429 | 13,916 | 9,511 | 2,681 | 49,537 | 166,688 | 30 | 238,536 | 21 |
| 1985 | 14,339 | 7,042 | 11,270 | 6,320 | 38,971 | 137,671 | 28 | 200,773 | 19 |
| 1986 | 12,361 | 16,190 | 13,117 | 4,222 | 45,890 | 188,872 | 24 | 255,887 | 18 |
| 1987 | 25,787 | 11,028 | 8,746 | 8,548 | 54,109 | 176,710 | 31 | 235,435 | 23 |
| 1988 | 40,037 | 19,518 | 16,283 | 7,403 | 83,241 | 225,812 | 37 | 281,450 | 30 |
| 1989 | 23,846 | 17,078 | 18,226 | 7,683 | 66,833 | 237,155 | 28 | 338,195 | 20 |
| 1990 | 18,762 | 11,743 | 13,883 | 6,016 | 50,404 | 214,114 | 24 | 325,936 | 15 |
| 1991 | 22,186 | 19,479 | 20,507 | 8,253 | 70,425 | 254,961 | 28 | 389,569 | 18 |
| 1992 | 25,814 | 33,790 | 16,218 | 7,037 | 82,859 | 237,204 | 35 | 345,513 | 24 |
| 1993 | 35,763 | 26,063 | 15,454 | 10,326 | 87,606 | 283,868 | 31 | 412,487 | 21 |
| 1994 | 28,539 | 20,870 | 15,361 | 8,247 | 73,017 | 299,849 | 24 | 502,948 | 15 |
| 1995 | 20,650 | 19,165 | 17,148 | 8,182 | 65,145 | 263,749 | 25 | 368,631 | 18 |
| 1996 | 24,874 | 24,174 | 17,375 | 11,430 | 77,853 | 328,178 | 24 | 503,413 | 15 |
| 1997 | 11,773 | 10,297 | 7,123 | 6,492 | 35,685 | 283,311 | 13 | 462,931 | 8 |
| 1998 | 23,750 | 23,086 | 13,235 | 8,160 | 68,231 | 375,742 | 18 | 600,862 | 11 |
| 1999 | 14,429 | 23,292 | 17,995 | 9,339 | 65,055 | 309,564 | 21 | 632,829 | 10 |
| 2000 | 32,530 | 37,748 | 23,262 | 11,712 | 105,252 | 419,835 | 25 | 624,327 | 17 |
| 2001 | 30,106 | 26,617 | 19,221 | 13,949 | 89,893 | 480,048 | 19 | 811,799 | 11 |
| 2002 | 44,448 | 27,183 | 14,144 | 13,380 | 99,155 | 488,911 | 20 | 776,033 | 13 |
| 2003 | 24,583 | 18,585 | 16,072 | 14,239 | 73,479 | 450,231 | 16 | 783,328 | 9 |
| 2004 | 34,298 | 20,484 | 17,785 | 16,179 | 88,746 | 516,183 | 17 | 861,490 | 10 |
| 2005 | 27,000 | 17,471 | 18,266 | 12,572 | 75,309 | 514,473 | 15 | 937,965 | 8 |
| 2006 | 39,953 | 22,719 | 20,474 | 11,940 | 95,086 | 425,981 | 22 | 652,953 | 15 |
| 2007 | 27,733 | 13,464 | 14,065 | 12,580 | 67,842 | 444,032 | 15 | 716,815 | 9 |
| 2008 | 35,996 | 24,211 | 15,126 | 14,673 | 90,006 | 426,916 | 21 | 676,376 | 13 |
| 2009 | 37,271 | 15,335 | 14,464 | 9,801 | 76,871 | 397,945 | 19 | 665,000 | 12 |
| 2010 | 26,369 | 14,291 | 16,245 | 9,030 | 65,935 | 369,235 | 18 | 565,943 | 12 |
| 2011 | 8,484 | 9,040 | 12,483 | 6,292 | 36,299 | 331,506 | 11 | 575,303 | 6 |
| 2012 | 5,014 | 7,629 | 9,434 | 7,813 | 29,890 | 211,501 | 14 | 429,229 | 7 |
| 1977-2010 | | | | | | | | | |
| Average | 23,305 | 17,323 | 14,080 | 7,829 | 62,537 | 282,581 | 24 | 445,841 | 16 |
| 2006-2010 | | | | | | | | | |
| Ave | 33,464 | 18,004 | 16,075 | 11,605 | 79,148 | 412,822 | 19 | 655,417 | 12 |
| % of NCIMA | | | | | | | | | |
| 2006-2010 | 42 | 23 | 20 | 15 | | | 21 | | 13 |

Table 34.—Coho salmon harvest and fishing effort from Knik Arm sport fisheries, 1977-2012.

| Year | Other Knik Arm | | | | | | | | | | | | | | | | | |
|------|--------------------------------|--------------------------|------------------------|--------------------------|---------------|--------------------------|------------------|--------------------------|------------------|--------------------------|------------------|--------------------------|---------|--------------------------|---------|--------------------------|---------|--------------------------|
| | Little Susitna River | | Jim Creek ^a | | Wasilla Creek | | Cottonwood Creek | | Fish Creek | | Eklutna Tailrace | | Total | | Other | | Total | |
| | Harvest(Hatchery) ^b | Angler-days ^c | Harvest | Angler-days ^c | Harvest | Angler-days ^c | Harvest | Angler-days ^c | Harvest | Angler-days ^c | Harvest | Angler-days ^c | Harvest | Angler-days ^c | Harvest | Angler-days ^c | Harvest | Angler-days ^c |
| 1977 | 3,415 | 11,063 | | | 472 | 2,805 | | | | | | | 472 | 2,805 | 479 | 68,081 | 4,366 | 81,949 |
| 1978 | 4,865 | 12,127 | | | 2,112 | 3,446 | | | | | | | 2,112 | 3,446 | 918 | 59,967 | 7,895 | 75,540 |
| 1979 | 3,382 | 21,301 | | | 1,211 | 4,024 | 1,198 | 5,345 | | | | | 2,409 | 9,369 | 1,348 | 47,741 | 7,139 | 78,411 |
| 1980 | 6,302 | 22,420 | | | 3,555 | 5,726 | 3,375 | 9,268 | | | | | 6,930 | 14,994 | 2,798 | 65,116 | 16,030 | 102,530 |
| 1981 | 5,940 | 26,162 | 1,801 | 4,904 | 814 | 4,019 | 1,373 | 8,663 | | | | | 3,988 | 17,586 | 556 | 61,304 | 10,484 | 105,052 |
| 1982 | 7,116 | 24,020 | 2,306 | 6,653 | 1,624 | 6,261 | 1,886 | 5,186 | | | | | 5,816 | 18,100 | 744 | 49,593 | 13,676 | 91,713 |
| 1983 | 2,835 | 35,477 | 774 | 9,183 | 345 | 3,239 | 518 | 5,944 | | | | | 1,637 | 18,366 | 1,667 | 84,546 | 6,139 | 138,389 |
| 1984 | 14,253 | 48,517 | 3,429 | 9,369 | 1,920 | 3,547 | 1,895 | 7,144 | | | 561 | 3,413 | 7,805 | 23,473 | 1,371 | 58,737 | 23,429 | 130,727 |
| 1985 | 7,764 | 37,498 | 2,523 | 8,970 | 1,900 | 3,115 | 1,005 | 4,560 | 284 | 903 | 557 | 2,995 | 6,269 | 20,543 | 306 | 64,585 | 14,339 | 122,626 |
| 1986 | 6,039 | 109 45,776 | 2,948 | 13,015 | 944 | 3,387 | 690 | 5,653 | 364 | 2,641 | 502 | 8,549 | 5,448 | 33,245 | 874 | 52,585 | 12,361 | 131,606 |
| 1987 | 13,003 | 3,407 35,659 | 3,676 | 6,990 | 1,195 | 2,173 | 1,159 | 2,934 | 833 | 2,898 | 2,318 | 11,663 | 9,181 | 26,658 | 3,603 | 77,850 | 25,787 | 140,167 |
| 1988 | 19,009 | 9,638 49,731 | 11,078 | 23,229 | 1,273 | 2,228 | 746 | 4,056 | 1,637 | 3,110 | 3,329 | 13,188 | 18,063 | 45,811 | 2,965 | 87,487 | 40,037 | 183,029 |
| 1989 | 14,129 | 10,597 54,708 | 4,220 | 11,141 | 975 | 2,406 | 876 | 3,069 | 784 | 3,314 | 1,666 | 10,342 | 8,521 | 30,272 | 1,196 | 61,932 | 23,846 | 146,912 |
| 1990 | 7,497 | 2,242 40,159 | 6,184 | 17,878 | 1,012 | 2,679 | 286 | 3,056 | 398 | 3,936 | 1,012 | 7,618 | 8,892 | 35,167 | 2,373 | 67,558 | 18,762 | 142,884 |
| 1991 | 16,450 | 7,699 50,838 | 2,920 | 13,736 | 844 | 2,893 | 176 | 1,623 | 486 | 3,693 | 631 | 5,892 | 5,057 | 27,837 | 679 | 67,930 | 22,186 | 146,605 |
| 1992 | 20,033 | 3,406 49,304 | 3,409 | 8,856 | 413 | 1,110 | 348 | 1,974 | 526 | 3,638 | 664 | 4,279 | 5,360 | 19,857 | 421 | 72,664 | 25,814 | 141,825 |
| 1993 | 27,610 | 7,703 42,249 | 2,878 | 6,824 | 1,133 | 1,774 | 736 | 3,077 | 741 | 2,341 | 1,337 | 4,523 | 6,825 | 18,539 | 1,328 | 57,426 | 35,763 | 118,214 |
| 1994 | 17,665 | 6,165 45,149 | 3,946 | 9,658 | 1,390 | 2,226 | 1,100 | 3,230 | 492 | 2,358 | 3,553 | 8,974 | 10,481 | 26,446 | 393 | 71,777 | 28,539 | 143,372 |
| 1995 | 14,451 | 2,991 41,119 | 3,549 | 10,893 | 445 | 1,373 | 340 | 2,598 | 435 | 2,256 | 990 | 11,453 | 5,759 | 28,573 | 440 | 56,462 | 20,650 | 126,154 |
| 1996 | 16,753 | 3,418 24,575 | 3,911 | 7,561 | 872 | 1,386 | 762 | 1,783 | 607 | 934 | 1,217 | 6,448 | 7,369 | 18,112 | 752 | 48,303 | 24,874 | 90,990 |
| 1997 | 7,756 | 0 27,883 | 1,786 | 5,349 | 708 | 1,188 | 372 | 2,070 | 148 | 1,104 | 728 | 3,835 | 3,742 | 13,546 | 275 | 54,301 | 11,773 | 95,730 |
| 1998 | 14,469 | 0 22,108 | 4,197 | 5,272 | 970 | 1,171 | 1,098 | 3,454 | 1,334 | 2,256 | 1,422 | 5,100 | 9,021 | 17,253 | 260 | 38,857 | 23,750 | 78,218 |
| 1999 | 8,864 | 0 30,437 | 2,612 | 6,860 | 313 | 990 | 537 | 3,506 | 233 | 2,182 | 1,453 | 6,150 | 5,148 | 19,688 | 417 | 62,517 | 14,429 | 112,642 |
| 2000 | 20,357 | 0 39,556 | 5,653 | 10,975 | 0 | 328 | 282 | 1,265 | 470 | 1,408 | 5,053 | 7,938 | 11,458 | 21,914 | 715 | 60,131 | 32,530 | 121,601 |
| 2001 | 17,071 | 0 33,521 | 8,374 | 13,028 | 0 | 419 | 647 | 2,627 | 361 | 1,670 | 3,399 | 10,166 | 12,781 | 27,910 | 254 | 49,596 | 30,106 | 111,027 |
| 2002 | 19,278 | 0 40,346 | 14,707 | 17,989 | 664 | 1,037 | 561 | 1,534 | 1,233 | 2,776 | 7,073 | 11,767 | 24,238 | 35,103 | 932 | 50,745 | 44,448 | 126,194 |
| 2003 | 13,672 | 31,993 | 6,415 | 13,474 | 261 | 757 | 665 | 2,238 | 112 | 758 | 3,128 | 8,423 | 10,581 | 25,650 | 330 | 46,335 | 24,583 | 103,978 |
| 2004 | 15,307 | 0 33,819 | 11,766 | 19,342 | 488 | 1,079 | 532 | 3,282 | 774 | 2,029 | 5,084 | 9,588 | 18,644 | 35,320 | 347 | 44,389 | 34,298 | 113,528 |
| 2005 | 10,203 | 0 27,490 | 10,114 | 19,605 | 347 | 684 | 668 | 1,484 | 535 | 1,461 | 4,899 | 19,339 | 16,563 | 42,573 | 234 | 45,700 | 27,000 | 115,763 |
| 2006 | 12,399 | 0 28,547 | 19,259 | 25,271 | 857 | 869 | 789 | 3,867 | 281 | 948 | 6,104 | 20,465 | 27,290 | 51,420 | 264 | 39,828 | 39,953 | 119,795 |
| 2007 | 11,089 | 0 23,233 | 11,848 | 21,342 | 324 | 1,194 | 856 | 3,448 | 120 | 907 | 3,298 | 22,619 | 16,446 | 49,510 | 198 | 47,938 | 27,733 | 120,681 |
| 2008 | 13,498 | 0 31,989 | 17,545 | 27,874 | 1,086 | 1,394 | 308 | 2,718 | 993 | 1,343 | 2,253 | 20,586 | 22,185 | 53,915 | 313 | 50,668 | 35,996 | 136,572 |
| 2009 | 8,346 | 28,151 | 11,573 | 16,486 | 1,002 | 1,619 | 1,503 | 2,512 | 1,178 | 2,050 | 6,767 | 22,625 | 22,023 | 45,292 | 6,902 | 49,065 | 37,271 | 122,508 |
| 2010 | 10,662 | 24,846 | 8,442 | 16,140 | 2,886 | 2,354 | 301 | 2,064 | 966 ^d | 2,161 | 3,233 | 14,708 | 25,524 | 62,273 | 616 | 44,008 | 51,664 | 106,281 |
| 2011 | 2,452 | 12,779 | 3,132 | 9,810 | 372 | 1,300 | 619 | 1,736 | 414 | 970 | 1,350 | 5,972 | 8,339 | 32,567 | 145 | 34,117 | 8,484 | 66,684 |
| 2012 | 1,681 | 10,115 | 1,858 | 7,474 | 191 | 506 | 616 | 884 | 274 | 1,220 | 394 | 5,475 | 5,014 | 25,674 | 0 | 433 | 5,014 | 26,107 |

-continued-

Table 34.–Page 2 of 2.

| Year | Little Susitna River | | Other Knik Arm | | | | | | | | | | | | | | | |
|-----------------|--------------------------------|--------------------------|------------------------|--------------------------|---------------|--------------------------|------------------|--------------------------|------------|--------------------------|------------------|--------------------------|---------|--------------------------|---------|--------------------------|---------|--------------------------|
| | Harvest(Hatchery) ^b | Angler-days ^c | Jim Creek ^a | | Wasilla Creek | | Cottonwood Creek | | Fish Creek | | Eklutna Tailrace | | Total | | Other | | Total | |
| | | | Harvest | Angler-days ^c | Harvest | Angler-days ^c | Harvest | Angler-days ^c | Harvest | Angler-days ^c | Harvest | Angler-days ^c | Harvest | Angler-days ^c | Harvest | Angler-days ^c | Harvest | Angler-days ^c |
| <u>Averages</u> | | | | | | | | | | | | | | | | | | |
| 1977-2010 | 12,102 | 33,582 | 6,461 | 12,929 | 1,010 | 2,203 | 862 | 3,601 | 614 | 2,118 | 2,675 | 10,468 | 10,413 | 27,664 | 1,096 | 57,815 | 24,049 | 118,330 |
| 2006-2010 | 11,199 | 27,353 | 13,130 | 21,423 | 1,231 | 1,486 | 751 | 2,922 | 643 | 1,482 | 4,331 | 20,201 | 22,694 | 52,482 | 1,659 | 46,301 | 38,523 | 121,167 |

^a Includes other Knik River tributaries

^b Bartlett and Conrad 1988, Bartlett and Vincent-Lang 1989, Bartlett and Sonnichsen 1990, Bartlett and Bingham 1991, Bartlett 1992-1994, 1996.

^c Participation directed at coho salmon represents only a portion of the annual effort.

^d Includes Fish Creek Salt water areas

Table 35.—Knik Arm drainage coho salmon escapement counts, 1981–2012.

| Year | Little Susitna River ^b | | Fish Creek Weir ^c | Cottonwood Creek | | Wasilla Creek drainage | | | | | Total | |
|---------------|-----------------------------------|---------------------|------------------------------------|-------------------------|--------------------|------------------------|-----------------------------|---------------------------------|------------------|-----------------|------------------|--------------|
| | Stocked fish | Weir | | Index ^a | Weir | | Index ^a | | | | | |
| | | | | | Wasilla Creek | Spring Creek | Wasilla Creek (mainstem) | Spring Creek (upper) (Flats) | | | | |
| 1981 | | | 2,382 | 2,436 ^d | 423 | | | 238 | | ^e | | 302 |
| 1982 | | | 5,201 | Weir 2,064 ^d | 737 | | | 171 | | ^e | | 276 |
| 1983 | | | 2,342 | | 506 | | | 4 | | ^e | | 32 |
| 1984 | | | 4,510 | | 935 | | | 876 | | | 90 | 966 |
| 1985 | | | 5,089 | | 334 | | | 16 | 150 | | 81 | 247 |
| 1986 | | 6,999 ^f | | | 121 | | | | ^e 141 | 64 | | 288 |
| 1987 | | | 3,871 | | 360 | | | 251 | 110 | 105 | 42 | 403 |
| 1988 | 4,428 | 20,491 | 2,166 | 2,162 | 293 | | | | ^e 82 | 28 | | 112 |
| 1989 | 6,862 | 15,232 | 3,479 | | 147 | | | | ^e 67 | | | 106 |
| 1990 | 3,370 | 14,310 | 2,719 | | 167 | | | 34 | 38 | | 12 | 84 |
| 1991 | 8,322 | 37,601 | 1,297 | | 158 | | | 118 | 16 | 147 | 5 | 139 |
| 1992 | 2,324 | 20,393 | 1,705 | | 6 | | | 3 | 11 | | 0 | 14 |
| 1993 | 9,615 | 33,378 | 2,328 | | 265 | | | | ^e 67 | 30 | | 136 |
| 1994 | 5,124 | 27,820 | 350 | | 232 | | | 282 | 76 | 39 | 60 | 418 |
| 1995 | 1,069 | 11,817 | 390 | | 242 | | | 46 | 20 | | 38 | 104 |
| 1996 | | 15,803 | 682 | | 168 | | | 84 | 30 | | 29 | 143 |
| 1997 | | 9,894 ^f | | 936 | 386 | | | 156 | 38 | | 35 | 229 |
| 1998 | | 15,159 | 5,463 | 2,114 | 537 | 3,614 | 163 | 120 | | ^g 69 | | 176 |
| 1999 | | 3,017 | 2,578 | 1,766 | 458 ^h | 1,579 ⁱ | 8 | 211 | 40 | | 16 | 267 |
| 2000 | | 15,436 | 5,218 | 1,482 ^h | 876 ^h | 6,154 | 0 | 380 | | | 50 | 654 |
| 2001 | | 30,587 | 9,247 | 2,921 ^h | 983 ^h | 6,508 | 276 | 453 | 31 | 37 | 15 | 505 |
| 2002 | | 47,938 | 14,651 | 4,081 ^h | 1,191 ^h | 12,495 | 162 ^j | 933 | 224 | 188 | 75 | 1,196 |
| 2003 | | 10,877 | 1,231 | 706 ^h | 229 ^h | 2,962 | | | | 17 | 25 | 294 |
| 2004 | | 40,199 | 1,415 | 1,772 ^h | 430 ^h | | ^j | 934 | | 114 | 100 | 1,148 |
| 2005 | | 16,839 ^f | 3,011 | | 619 | | | | ^e | | ^e 130 | 130 |
| 2006 | | 8,786 ^f | 4,967 | | 912 | | | 294 | ^k | | 272 | 737 |
| 2007 | | 17,573 | 6,868 | | 1,024 | | | 380 | ^k | 50 | | 430 |
| 2008 | | 18,485 | 4,868 | | 1,821 | | 227 | 1,461 | | 63 | 12 | 1,536 |
| 2009 | | 9,523 | 8,214 | | 942 | | | 936 | 171 | 28 | 14 | 978 |
| 2010 | | 9,214 | 6,977 | | 756 | | | 927 | | 290 | 6 | 1,223 |
| 2011 | | 4,826 | 1,428 ^{ch} | | 698 | | | 518 | | 55 | 3 | 576 |
| 2012 | | 6,779 ^f | | | 467 | | | | ^e | | | ^e |
| 1981-2010 Ave | 5,139 | 20,743 | 3,905 | 1,897 | 531 | 5,552 | 122 | 381 | 84 | 0 | 55 | 442 |
| 2001-2010 Ave | - | 21,973 | 1,237 | - | 891 | - | - | 727 | 106 | | 67 | 818 |
| 2006-2010 Ave | - | 13,699 | | - | 1,091 | - | - | 800 | 120 | | 61 | 981 |
| SEG range | 10,100- | 17,700 | | | | | | | | | | |

-continued-

Table 35.-Page 2 of 3.

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| Year | Matanuska River | | | Jim Creek drainage Index ^a | | | Total |
|---------------|---------------------------------|------------------------------|----------------------------------|---------------------------------------|------------------|-----------------|--------------|
| | Yellow Creek Index ^a | Wolverine Creek ^a | Bartko side channel ^a | Weir | McRoberts Creek | Upper Jim Creek | |
| 1981 | | | | | | | ^e |
| 1982 | | | | | | | ^e |
| 1983 | | | | | | | ^e |
| 1984 | | | | | | | ^e |
| 1985 | 65 | | | | 662 | | 662 |
| 1986 | 20 | | | | 439 | | 439 |
| 1987 | 58 | | | | 667 | | 667 |
| 1988 | 110 | | | | 1,911 | | 1,911 |
| 1989 | 226 | | | | 597 | | 597 |
| 1990 | 146 | | | | 599 | 589 | 1,188 |
| 1991 | 136 | | | | 484 | 418 | 902 |
| 1992 | 57 | | | | 11 | 59 | 70 |
| 1993 | 490 | | | 5,532 | 503 | 535 | 1,038 |
| 1994 | 172 | | | 6,451 | 506 | 2,119 | 2,625 |
| 1995 | 220 | | | | 702 | 1,288 | 1,990 |
| 1996 | 101 | | | | 72 | 439 | 511 |
| 1997 | 367 | | | | 701 | 563 | 1,264 |
| 1998 | 302 | | | | 922 | 560 | 1,482 |
| 1999 | 88 | | | | 12 | 320 | 332 |
| 2000 | 169 | | | | 657 | 2,561 | 3,218 |
| 2001 | 419 | | | | 1,019 | 575 | 1,594 |
| 2002 | 65 | | | | 2,473 | 1,630 | 4,103 |
| 2003 | 53 | | | | 1,421 | 393 | 1,814 |
| 2004 | 0 | | | | 4,652 | 1,045 | 5,697 |
| 2005 | 305 | | | | 1,464 | 1,883 | 3,347 |
| 2006 | 47 | | | | 2,389 | 1,750 | 4,139 |
| 2007 | 50 | | | | 725 | 1,150 | 1,875 |
| 2008 | 0 | | | | 1,890 | 1,029 | 2,919 |
| 2009 | ¹ | 150 | 440 | | 1,331 | 1,193 | 2,524 |
| 2010 | ¹ | | | | 242 | 420 | 662 |
| 2011 | ¹ | | 23 | | 261 | 229 | 490 |
| 2012 | ¹ | | ^e | | 213 ^g | 495 | 708 |
| 1981-2010 Ave | 153 | - | - | - | 1,040 | 977 | 1,830 |
| 2001-2010 Ave | 117 | - | - | - | 1,761 | 1,107 | 2,867 |
| 2006-2010 Ave | 25 | - | - | - | 1,315 | 1,108 | 2,424 |
| SEG range | | | | | 450-700 | | |

-continued-

Table 35.–Page 3 of 3.

Note: "-" = value can't be calculated due to limitations of the data.

- ^a Foot surveys unless otherwise noted.
- ^b Weir located at River Mile 34 in 1986 and 1988-1995; weir located at RM 71 from 1996-2010.
- ^c 1982-1991 weir count plus stream survey; 1992, 1993 weir count; 1994-1996 and 2004-2008 and 2011 weir was removed on August 15 before the majority of the coho run. In 1997 the weir was out on September 1.
- ^d Combination weir and foot survey. Weir was removed prior to completion of coho run.
- ^e No survey conducted.
- ^f Incomplete or partial count due to weir submersion.
- ^g Count conducted late due to high water.
- ^h Coho salmon counted below weir after it was pulled:
Fish Creek 2000-2010: 761 (2000), 800 (2001), 536 (2002), 911 (2003), 1,840 (2004), 825 (2005), 756 (2006), 2,750 (2007), 4,735 (2008), 452 (2009), 57 (2010), 872(2011).
Cottonwood Creek 1999-2004: 20 (1999), 406 (2000), 604 (2001), 189 (2002), 85 (2003), 266 (2004)
- ⁱ Beginning in 1999, the highest count of three counts occurred within a 2-week period.
- ^j Weir discontinued.
- ^k Poor counting conditions.
- ^l Index discontinued after more than half the index area was destroyed by the Matanuska River .

Table 36.—Eastside Susitna River drainage coho salmon harvest by fishery, 1977-2012.

| Year | Willow Creek | Lt. Willow Creek | Kashwitna River | Caswell Creek | Sheep Creek | Goose Creek | Montana Creek | Birch Creek | Sunshine Creek | Talkeetna River ^a | Other ^b | Total |
|-----------|--------------|------------------|-----------------|---------------|-------------|-------------|---------------|-------------|----------------|------------------------------|--------------------|--------|
| 1977 | 679 | 225 | | | 438 | | 1,415 | | | 1,070 | 1,882 | 5,709 |
| 1978 | 905 | 151 | | | 478 | | 2,451 | | | 2,200 | 2,388 | 8,573 |
| 1979 | 462 | 262 | | 624 | 462 | | 1,735 | | 774 | 1,248 | 1,997 | 7,564 |
| 1980 | 1,207 | 494 | | 1,124 | 430 | | 2,684 | | 1,534 | 661 | 2,234 | 10,368 |
| 1981 | 747 | 29 | | 901 | 326 | | 2,261 | | 968 | 422 | 939 | 6,593 |
| 1982 | 1,069 | 398 | | 776 | 367 | | 3,060 | | 1,719 | 996 | 1,782 | 10,167 |
| 1983 | 576 | 52 | 52 | 408 | 596 | | 1,402 | | 722 | 836 | 532 | 5,176 |
| 1984 | 1,846 | 1,147 | 162 | 1,247 | 661 | 449 | 4,502 | | 1,733 | 1,509 | 660 | 13,916 |
| 1985 | 1,026 | 528 | | 608 | 478 | | 1,972 | | 1,205 | 747 | 478 | 7,042 |
| 1986 | 944 | 363 | 871 | 472 | 1,343 | 363 | 1,488 | 980 | 4,029 | 3,376 | 1,961 | 16,190 |
| 1987 | 2,898 | 561 | 36 | 453 | 1,068 | 145 | 1,394 | 163 | 1,612 | 2,608 | 90 | 11,028 |
| 1988 | 4,875 | 1,237 | 327 | 1,455 | 3,165 | 291 | 2,219 | 691 | 2,146 | 2,929 | 183 | 19,518 |
| 1989 | 4,218 | 1,388 | 336 | 834 | 2,231 | 190 | 2,295 | 281 | 2,159 | 2,775 | 371 | 17,078 |
| 1990 | 2,711 | 639 | 197 | 2,596 | 991 | 180 | 778 | | 704 | 2,539 | 408 | 11,743 |
| 1991 | 4,154 | 1,308 | 167 | 3,819 | 1,544 | 657 | 1,612 | 322 | 1,761 | 3,435 | 700 | 19,479 |
| 1992 | 8,591 | 1,830 | 713 | 5,393 | 4,049 | 502 | 3,595 | 858 | 2,259 | 5,531 | 469 | 33,790 |
| 1993 | 5,743 | 1,213 | 554 | 2,385 | 2,413 | 428 | 3,496 | 535 | 2,922 | 5,830 | 544 | 26,063 |
| 1994 | 4,504 | 1,452 | 328 | 1,569 | 1,586 | 478 | 2,619 | 281 | 1,906 | 5,476 | 671 | 20,870 |
| 1995 | 3,498 | 992 | 472 | 1,687 | 1,092 | 152 | 2,385 | 198 | 1,385 | 6,672 | 632 | 19,165 |
| 1996 | 5,176 | 1,892 | 360 | 668 | 1,896 | 430 | 3,118 | 258 | 2,612 | 7,325 | 439 | 24,174 |
| 1997 | 2,401 | 661 | 202 | 294 | 1,198 | 166 | 1,692 | 177 | 443 | 2,815 | 248 | 10,297 |
| 1998 | 5,908 | 1,185 | 670 | 564 | 3,417 | 382 | 2,720 | 920 | 1,589 | 5,340 | 382 | 23,086 |
| 1999 | 5,019 | 871 | 260 | 1,198 | 3,045 | 440 | 3,382 | 622 | 1,709 | 5,814 | 932 | 23,292 |
| 2000 | 8,679 | 2,885 | 994 | 1,702 | 3,348 | 1,181 | 5,454 | 1,160 | 3,274 | 7,703 | 1,368 | 37,748 |
| 2001 | 6,835 | 1,936 | 728 | 1,408 | 2,588 | 683 | 5,023 | 146 | 1,072 | 5,195 | 1,003 | 26,617 |
| 2002 | 6,040 | 1,513 | 494 | 797 | 2,995 | 204 | 4,644 | 288 | 3,238 | 5,640 | 1,330 | 27,183 |
| 2003 | 2,918 | 635 | 1,090 | 938 | 1,908 | 220 | 3,361 | 421 | 2,508 | 3,984 | 602 | 18,585 |
| 2004 | 2,981 | 1,290 | 251 | 189 | 2,636 | 248 | 4,866 | 223 | 2,070 | 4,454 | 1,276 | 20,484 |
| 2005 | 4,255 | 1,103 | 369 | 340 | 2,337 | 267 | 2,592 | 288 | 2,493 | 3,359 | 68 | 17,471 |
| 2006 | 5,031 | 1,511 | 1,202 | 780 | 3,602 | 906 | 2,622 | 281 | 3,460 | 3,224 | 100 | 22,719 |
| 2007 | 3,625 | 853 | 253 | 185 | 2,707 | 75 | 2,017 | 149 | 1,318 | 2,166 | 116 | 13,464 |
| 2008 | 3,760 | 1,340 | 2,880 | 649 | 2,125 | 594 | 5,628 | 58 | 2,928 | 4,128 | 121 | 24,211 |
| 2009 | 3,232 | 1,027 | 525 | 607 | 1,594 | 635 | 3,087 | 320 | 816 | 3,114 | 1,713 | 16,670 |
| 2010 | 1,986 | 1,506 | 660 | 670 | 1,641 | 132 | 2,498 | 345 | 1,123 | 2,729 | 1,001 | 14,291 |
| 2011 | 2,055 | 189 | 755 | 129 | 762 | 64 | 780 | 196 | 1,046 | 1,895 | 1,169 | 9,040 |
| 2012 | 918 | 295 | 285 | 160 | 395 | 608 | 1,085 | 129 | 957 | 2,282 | 515 | 7,629 |
| 2006-2010 | | | | | | | | | | | | |
| Average | 3,151 | 1,182 | 1,080 | 528 | 2,017 | 359 | 3,308 | 218 | 1,546 | 3,034 | 738 | 17,159 |

^a Talkeetna River and tributaries including Clear Creek.

^b Includes lakes and streams.

Table 37.–Westside Susitna River drainage coho salmon harvest by fishery, 1977–2012.

| Year | Alexander Creek | Deshka River | Rabideux Creek | Peters Creek | Yentna River | Lake Creek | Fish Creek ^a | Talachulitna River | Other ^b | Total |
|-----------|--------------------|-----------------|-------------------|-----------------|-----------------|---------------|----------------------------|-----------------------|--------------------|--------|
| 1977 | 1,562 | 559 | | | | 1,203 | | 346 | 2,929 | 6,599 |
| 1978 | 2,401 | 1,789 | | | | 2,212 | | 88 | 3,683 | 10,173 |
| 1979 | 1,560 | 973 | | | | 2,671 | | 125 | 3,707 | 9,036 |
| 1980 | 999 | 2,290 | | | | 2,351 | | 491 | 6,010 | 12,141 |
| 1981 | 891 | 632 | | | | 1,035 | | 240 | 3,142 | 5,940 |
| 1982 | 1,907 | 2,463 | | | | 1,603 | | 524 | 4,161 | 10,658 |
| 1983 | 408 | 1,036 | | | | 1,392 | | 84 | 690 | 3,610 |
| 1984 | 1,509 | 1,646 | | 12 | | 2,432 | | 486 | 3,426 | 9,511 |
| 1985 | 1,455 | 2,637 | | | | 4,105 | | 224 | 2,849 | 11,270 |
| 1986 | 1,352 | 4,256 | | | | 1,575 | 324 | 402 | 5,208 | 13,177 |
| 1987 | 1,539 | 2,789 | | | | 1,358 | 362 | 235 | 2,463 | 8,746 |
| 1988 | 1,965 | 7,458 | | 18 | | 2,110 | 400 | 418 | 3,914 | 16,283 |
| 1989 | 2,207 | 8,947 | 409 | 47 | 103 | 1,907 | 549 | 688 | 3,369 | 18,226 |
| 1990 | 1,973 | 4,959 | 540 | 33 | 353 | 2,986 | 793 | 276 | 1,970 | 13,883 |
| 1991 | 2,296 | 8,111 | 32 | 221 | 718 | 4,221 | 1,081 | 828 | 2,999 | 20,507 |
| 1992 | 834 | 7,110 | 543 | 300 | 275 | 2,632 | 575 | 405 | 3,544 | 16,218 |
| 1993 | 1,719 | 6,530 | | 67 | 227 | 3,101 | 920 | 152 | 2,738 | 15,454 |
| 1994 | 2,188 | 5,511 | | 72 | 556 | 2,723 | 714 | 427 | 3,170 | 15,361 |
| 1995 | 2,692 | 2,275 | | 183 | 569 | 4,736 | 1,058 | 1,031 | 4,604 | 17,148 |
| 1996 | 803 | 4,615 | | 57 | 1,198 | 4,445 | 618 | 805 | 4,834 | 17,375 |
| 1997 | 1,307 | 1,169 | | 89 | 591 | 1,445 | 332 | 793 | 1,397 | 7,123 |
| 1998 | 1,158 | 3,630 | | | 299 | 4,353 | 785 | 905 | 2,105 | 13,235 |
| 1999 | 1,418 | 4,034 | | 65 | 1,093 | 6,931 | 2,261 | 1,453 | 740 | 17,995 |
| 2000 | 2,695 | 8,687 | | 157 | 1,050 | 6,297 | 1,320 | 1,347 | 1,709 | 23,262 |
| 2001 | 1,972 | 6,556 | | 0 | 620 | 5,610 | 1,958 | 1,142 | 1,363 | 19,221 |
| 2002 | 1,191 | 3,616 | | 177 | 705 | 4,613 | 1,034 | 1,447 | 1,361 | 14,144 |
| 2003 | 1,071 | 4,946 | | 155 | 1,162 | 5,263 | 959 | 1,543 | 973 | 16,072 |
| 2004 | 1,827 | 4,440 | 586 | 149 | 1,283 | 6,106 | 1,880 | 959 | 555 | 17,785 |
| 2005 | 757 | 3,616 | 168 | 96 | 678 | 8,684 | 2,292 | 583 | 1,392 | 18,266 |
| 2006 | 119 | 6,042 | 837 | 105 | 3,040 | 6,330 | 1,433 | 1,127 | 1,441 | 20,474 |
| 2007 | 328 | 2,550 | 134 | 454 | 3,512 | 3,685 | 842 | 1,804 | 756 | 14,065 |
| 2008 | 10 | 3,426 | 714 | 227 | 3,563 | 4,147 | 567 | 1,511 | 961 | 15,126 |
| 2009 | 501 | 4,060 | 23 | 472 | 2,607 | 4,417 | 417 | 675 | 1,292 | 14,464 |
| 2010 | 214 | 5,690 | 112 | 200 | 3,679 | 4,572 | 322 | 681 | 775 | 16,245 |
| 2011 | 245 | 2,282 | 118 | 894 | 3,685 | 3,340 | 139 | 533 | 1,247 | 12,483 |
| 2012 | 237 | 1,358 | 149 | 158 | 2,406 | 2,775 | 696 | 444 | 1,211 | 9,434 |
| 2006-2010 | | | | | | | | | | |
| Average | 263 | 3,932 | 246 | 338 | 3,340 | 4,205 | 537 | 1,168 | 946 | 14,975 |

^a Fish Lake drainage (Yentna River drainage).

^b May include harvest from West Cook Inlet Management Unit lakes and streams.

Table 38.—Eastside and westside Susitna River drainage coho salmon escapement counts, 1981–2012.

| Year | Westside Susitna Management Unit | | | | Eastside Susitna Management Unit ^a | | | | Susitna River ^d | Total |
|-----------|----------------------------------|---------------------------|----------------------|---------|---|----------------------|--------------------|--------------|----------------------------|---------|
| | Yentna River ^b | Deshka River ^c | Rabideux Creek index | Total | Birch Creek index | Question Creek index | Answer Creek index | Total | | |
| 1981 | 17,017 | | ^e | 17,017 | ^e | ^e | ^e | ^e | 37,000 | 54,017 |
| 1982 | 34,089 | | ^e | 34,089 | ^e | ^e | ^e | ^e | 80,000 | 114,089 |
| 1983 | 8,867 | | ^e | 8,867 | ^e | ^e | ^e | ^e | 24,000 | 32,867 |
| 1984 | 18,172 | | 480 | 18,652 | 236 | 60 | 57 | 353 | | 19,005 |
| 1985 | 9,181 | | 82 | 9,263 | 30 | 89 | 9 | 128 | ^e | 9,391 |
| 1986 | 23,457 | | ^e | 23,457 | 25 | ^e | ^e | 25 | ^e | 23,482 |
| 1987 | 6,279 | | 50 ^f | 6,329 | 46 | 149 | 10 | 205 | ^e | 6,534 |
| 1988 | 12,173 | | 230 | 12,403 | 63 | 337 | 160 | 560 | ^e | 12,963 |
| 1989 | 25,695 | | 20 | 25,715 | 180 | 31 | 66 | 277 | ^e | 25,992 |
| 1990 | 21,346 | | 20 | 21,366 | 36 | 41 | 6 | 83 | ^e | 21,449 |
| 1991 | 57,275 | | 185 | 57,460 | 300 | 492 | 51 | 843 | ^e | 58,303 |
| 1992 | 29,073 | | ^e | 29,073 | 167 | 227 | 181 | 575 | ^e | 29,648 |
| 1993 | 37,752 | | ^e | 37,752 | 178 | 370 | 34 | 582 | ^e | 38,334 |
| 1994 | 25,173 | | 105 | 25,278 | 224 | 339 | 0 ^g | 563 | ^e | 25,841 |
| 1995 | 74,406 | 12,824 | 39 | 87,269 | 127 | 155 | 35 | 317 | ^e | 87,586 |
| 1996 | 34,420 | | ^e | 34,420 | 458 | 238 | 43 | 739 | ^e | 35,159 |
| 1997 | 13,670 | 8,063 | 114 | 21,847 | 217 | 186 | 57 | 460 | ^e | 22,307 |
| 1998 | 24,769 | 6,773 ^c | 56 | 31,598 | 356 | 519 | 45 | 920 | ^e | 32,518 |
| 1999 | 37,933 | 4,563 ^c | 169 | 42,665 | 153 | 128 | 470 | 751 | ^e | 43,416 |
| 2000 | 40,921 | 26,387 | 354 | 67,662 | 809 | 1,040 | 899 | 2,748 | ^e | 70,410 |
| 2001 | 47,077 | 29,927 | 656 | 77,660 | 1,470 | 450 | 371 | 2,291 | ^e | 79,951 |
| 2002 | 75,090 | 24,612 ^c | ^e | 99,702 | 1,158 | 1,010 | 249 | 2,417 | ^e | 102,119 |
| 2003 | 45,222 | 17,305 | 344 | 62,871 | ^e | 407 | 131 | 538 | ^e | 63,409 |
| 2004 | 92,343 | 62,940 | ^e | 155,283 | ^e | 822 | 111 | 933 | ^e | 156,216 |
| 2005 | 76,890 | 47,887 | ^e | 124,777 | 1,014 | 537 | 35 | 1,586 | ^e | 126,363 |
| 2006 | 132,889 | 59,419 ^c | 3063 | 195,371 | 883 | 299 | 270 | 1,452 | ^e | 196,823 |
| 2007 | 39,957 | 10,575 | ^e | 50,532 | 167 | 241 | 26 | 434 | ^e | 50,966 |
| 2008 | 33,934 | 12,724 | 10,043 | 56,701 | 798 | 273 | 382 | 1,453 | ^e | 58,154 |
| 2009 | ^j | 27,348 | 345 ⁱ | 27,693 | 219 ⁱ | 9 ⁱ | 166 ⁱ | 394 | ^e | 28,087 |
| 2010 | | 10,393 | 161 | 10,554 | 117 | 41 | 2 | 160 | ^e | 10,714 |
| 2011 | | 7,508 ^c | 58 | 7,566 | 76 | 94 | 116 | 286 | ^e | 7,852 |
| 2012 | | 6,825 | ^e | 6,825 | 276 | 75 ^f | ^e | 351 | | 7,176 |
| Averages | | | | | | | | | | |
| 1981-2010 | 39,110 | 24,216 | 869 | 49,111 | 377 | 327 | 149 | 807 | 47,000 | 54,537 |
| 2001-2010 | 70,904 | 27,387 | 2,435 | 86,114 | 728 | 409 | 174 | 1,166 | | 87,280 |
| 2006-2010 | - | 15,260 | 3,403 | 68,170 | 437 | 173 | 169 | 779 | | 68,949 |

^a Survey conducted by walking portions of the creek.

^b Sonar counts, dates of assessment vary; estimates for 1981-1984 encompass the entire coho salmon migration (Davis 2000). All estimates from 1985-2008 are partial because Yentna River sonar shut down before the end of the coho run. Yentna River 2005 and 2006 coho salmon estimates reported by Westerman and Willette (2007a-b).

^c Weir count. Deshka River weir locations: 1995 (rm 17) and 1997-2000 (rm 7). In 1998, 1999, 2002, 2006, and 2011 the weir was underwater for an extended time during coho season resulting in incomplete counts.

^d Mark-recapture estimates of abundance upstream of Susitna River (rm 80). Source - (ADF&G 1981, 1983; Barrett et al. 1984).

^e No survey conducted.

^f Poor survey conditions.

^g Beaver dam downstream of index area blocking passage of fish.

^h Average includes only complete counts years at Deshka River weir (rm 7): 1997, 2000-2001, and 2003-2005.

ⁱ extreme low water conditions

^j Bendix sonar discontinued.

Table 39.–West Cook Inlet drainage coho salmon harvest by fishery, 1977–2012.

| Year | Chuitna River | Beluga River | Theodore River | Lewis River | Kustatan River | Polly Creek | Big River Lakes ^a | Silver Salmon Creek | Other Susitna R.- N. Foreland | Other South of N. Foreland | Other ^b | Total |
|-----------|---------------|--------------|----------------|-------------|----------------|-------------|------------------------------|---------------------|-------------------------------|----------------------------|--------------------|--------|
| 1977 | 316 | | 113 | 103 | | | | | | | | 532 |
| 1978 | 277 | | 101 | 0 | | | | | | | | 378 |
| 1979 | 287 | | 50 | 0 | | | | | | | | 337 |
| 1980 | 258 | | 370 | 0 | | | | | | | | 628 |
| 1981 | 594 | | 10 | | | | | | | | | 604 |
| 1982 | 220 | | 115 | | | 410 | | | | | | 745 |
| 1983 | 554 | | 10 | | 1,800 | 188 | | | | | | 2,552 |
| 1984 | 898 | | 137 | | 1,646 | | | | | | | 2,681 |
| 1985 | 1,095 | | 261 | 75 | 4,889 | | | | | | | 6,320 |
| 1986 | 815 | | 168 | | 3,239 | | | | | | | 4,222 |
| 1987 | 1,684 | | 996 | 145 | 5,723 | | | | | | | 8,548 |
| 1988 | 782 | | 400 | 0 | 6,221 | | | | | | | 7,403 |
| 1989 | 1,228 | 419 | 502 | 112 | 5,413 | | | | | | 9 | 7,683 |
| 1990 | 1,113 | | 198 | 33 | 4,584 | | 88 | | | | | 6,016 |
| 1991 | 1,791 | | 513 | 181 | 5,768 | | | | | | | 8,253 |
| 1992 | 1,547 | 243 | 421 | | 4,494 | 332 | | | | | | 7,037 |
| 1993 | 1,313 | | 236 | 194 | 6,457 | | 158 | | | 751 | 1,217 | 10,326 |
| 1994 | 559 | | 521 | | 5,259 | | 25 | | | 268 | 1,615 | 8,247 |
| 1995 | 1,407 | | 372 | | 4,237 | 641 | 75 | | | 559 | 891 | 8,182 |
| 1996 | 1,263 | | 361 | | 6,266 | 170 | 600 | 741 | | 1,858 | 171 | 11,430 |
| 1997 | 1,156 | | 187 | | 3,605 | | 305 | 574 | | 632 | 33 | 6,492 |
| 1998 | 2,348 | | 380 | | 3,999 | | 264 | 650 | | 382 | 137 | 8,160 |
| 1999 | 1,614 | | 290 | | 3,178 | | 463 | 1,282 | | 2,047 | 465 | 9,339 |
| 2000 | 1,872 | | 1,161 | | 5,699 | | 325 | 1,134 | | 1,521 | | 11,712 |
| 2001 | 3,284 | | 1,029 | | 4,920 | | 508 | 1,210 | | 2,998 | | 13,949 |
| 2002 | 2,586 | | 1,208 | 200 | 5,795 | | 490 | 1,725 | | 761 | 615 | 13,380 |
| 2003 | 1,467 | 426 | 225 | 197 | 3,967 | 190 | 2830 | 2269 | 429 | 1,611 | 628 | 14,239 |
| 2004 | 1,655 | 520 | 645 | 90 | 3,984 | 39 | 2648 | 1389 | 225 | 3,471 | 1103 | 15,769 |
| 2005 | 972 | 120 | 229 | 524 | 3,551 | | 3916 | 1568 | 491 | 913 | 288 | 12,572 |
| 2006 | 531 | 313 | 282 | 177 | 3,556 | 73 | 3,953 | 997 | 360 | 1,538 | 160 | 11,940 |
| 2007 | 1,577 | 537 | 811 | 82 | 4,057 | 45 | 1,644 | 1,041 | 792 | 820 | 1,174 | 12,580 |
| 2008 | 1,401 | 490 | 31 | 29 | 3,868 | 285 | 3,560 | 356 | 122 | 967 | 3,564 | 14,673 |
| 2009 | 707 | 154 | 313 | 73 | 2,639 | 106 | 3,032 | 1,133 | 1,009 | 548 | 87 | 9,801 |
| 2010 | 257 | 244 | 178 | 77 | 2,832 | 79 | 2,667 | 714 | 451 | 971 | 960 | 9,430 |
| 2011 | 425 | 512 | 45 | 9 | 1,876 | 28 | 1,270 | 640 | 852 | 419 | 216 | 6,292 |
| 2012 | 770 | 338 | 116 | 27 | 2,136 | 0 | 1,634 | 419 | 909 | 974 | 0 | 7,323 |
| 2006-2010 | | | | | | | | | | | | |
| Average | 986 | 323 | 333 | 177 | 3,349 | 127 | 2,726 | 1,019 | 594 | 827 | 1,446 | 11,621 |

^a Wolverine Creek and other tributaries of Big River Lakes.

^b Includes lakes and streams. Beginning in 1999 includes saltwater shoreline.

Table 40.—Knik Arm drainage sockeye salmon harvest by fishery, 1977–2012.

| Year | Little Susitna ^a | Knik River ^b | Eklutna Tailrace | Wasilla Creek | Cottonwood Creek | Big Lake ^c | Other ^d | Total |
|-----------|--------------------------------|----------------------------|---------------------|------------------|---------------------|--------------------------|--------------------|--------|
| 1977 | 888 | | | 274 | | | 414 | 1,576 |
| 1978 | 859 | | | 0 | | | 380 | 1,239 |
| 1979 | 1,478 | | | 0 | 1,525 | | 613 | 3,616 |
| 1980 | 2,127 | | | 0 | 2,660 | | 887 | 5,674 |
| 1981 | 1,619 | 450 | | 0 | 3,245 | | 766 | 6,080 |
| 1982 | 1,865 | 880 | | 0 | 608 | | 1268 | 4,621 |
| 1983 | 2,787 | 1,277 | | 0 | 1,632 | | 8601 | 14,297 |
| 1984 | 6,385 | 823 | 187 | 200 | 661 | | 984 | 9,240 |
| 1985 | 2,894 | 1,037 | 142 | 120 | 1,179 | 109 | 131 | 5,612 |
| 1986 | 3,616 | 905 | 28 | 61 | 789 | 39 | 571 | 6,009 |
| 1987 | 3,513 | 1,105 | 254 | 18 | 869 | 1,087 | 1939 | 8,785 |
| 1988 | 2,310 | 1,928 | 200 | 36 | 346 | 2,037 | 1219 | 8,076 |
| 1989 | 2,315 | 1,322 | 204 | 98 | 683 | 2,900 | 1518 | 9,040 |
| 1990 | 891 | 2,219 | 29 | 19 | 271 | 2,238 | 921 | 6,588 |
| 1991 | 1,722 | 1,459 | 19 | 56 | 47 | 565 | 1100 | 4,968 |
| 1992 | 1,274 | 1,471 | 173 | 8 | 633 | 1,241 | 549 | 5,349 |
| 1993 | 2,487 | 1,041 | 211 | 134 | 453 | 598 | 1002 | 5,926 |
| 1994 | 1,809 | 1,258 | 133 | 76 | 807 | 476 | 523 | 5,082 |
| 1995 | 1,116 | 990 | 190 | 31 | 895 | 651 | 476 | 4,349 |
| 1996 | 2,286 | 1,077 | 84 | 42 | 444 | 68 | 306 | 4,307 |
| 1997 | 1,845 | 864 | 100 | 20 | 1,008 | 122 | 136 | 4,095 |
| 1998 | 872 | 1,220 | 57 | 212 | 2,906 | 154 | 78 | 5,499 |
| 1999 | 1,282 | 614 | 151 | 11 | 1,080 | 432 | 88 | 3,658 |
| 2000 | 3,661 | 1,543 | 764 | | 1,118 | 21 | 429 | 7,536 |
| 2001 | 1,959 | 922 | 999 | | 314 | 10 | 124 | 4,328 |
| 2002 | 2,133 | 1,268 | 529 | 12 | 319 | 147 | 211 | 4,619 |
| 2003 | 3,337 | 1,554 | 122 | 0 | 961 | 57 | 575 | 6,606 |
| 2004 | 2,776 | 2,499 | 491 | 33 | 719 | 400 | 230 | 7,148 |
| 2005 | 1,442 | 848 | 362 | 0 | 538 | 79 | 191 | 3,460 |
| 2006 | 1,556 | 2,173 | 289 | 260 | 279 | 0 | 65 | 4,622 |
| 2007 | 2,387 | 3,001 | 397 | 70 | 766 | 289 | 120 | 7,030 |
| 2008 | 1,699 | 4,187 | 81 | 30 | 672 | 26 | 215 | 6,910 |
| 2009 | 1,152 | 2,612 | 865 | 165 | 341 | 647 | 215 | 5,997 |
| 2010 | 1,257 | 1,139 | 689 | 242 | 256 | 632 | 0 | 4,215 |
| 2011 | 295 | 1,852 | 301 | 161 | 893 | 0 | 130 | 3,632 |
| 2012 | 621 | 1,704 | 101 | 59 | 193 | 1,618 | 127 | 4,423 |
| 2006-2010 | | | | | | | | |
| Average | 1,624 | 2,735 | 508 | 127 | 509 | 399 | 138 | 6,038 |

^a Majority of harvest from Nancy Lake Creek.

^b Knik River and tributaries including Jim Creek.

^c Big Lake drainage streams.

^d Includes Nancy Lake complex lakes, all marine, and miscellaneous lakes and streams.

Table 41.—Eastside Susitna River drainage sockeye salmon harvest by fishery, 1977–2012.

| Year | Willow Creek | Little Willow | Kashwitna River | Caswell Creek | Sheep Creek | Goose Creek | Montana Creek | Birch Creek | Sunshine Creek | Talkeetna River ^a | Other Streams ^b | Other Lakes | Total |
|-----------|--------------|---------------|-----------------|---------------|-------------|-------------|---------------|-------------|----------------|------------------------------|----------------------------|-------------|-------|
| 1977 | 831 | 305 | | | 450 | | 978 | | | 334 | 696 | | 3,594 |
| 1978 | 56 | 28 | | | 14 | | 85 | | | 28 | 56 | | 267 |
| 1979 | 94 | 141 | | 0 | 31 | | 346 | | 157 | 31 | 220 | | 1,020 |
| 1980 | 83 | 77 | | 77 | 0 | | 257 | | 116 | 6 | 257 | | 873 |
| 1981 | 77 | 67 | | 38 | 105 | | 182 | | 220 | 29 | 115 | | 833 |
| 1982 | 94 | 105 | | 52 | 88 | | 514 | | 189 | 115 | 398 | | 1,555 |
| 1983 | 425 | 110 | 0 | 151 | 370 | | 534 | | 685 | 534 | 343 | 69 | 3,221 |
| 1984 | 249 | 337 | 0 | 87 | 62 | 0 | 561 | | 100 | 636 | 636 | 37 | 2,705 |
| 1985 | 139 | 80 | | 110 | 30 | | 279 | | 249 | 508 | 70 | 0 | 1,465 |
| 1986 | 290 | 0 | 109 | 0 | 0 | 0 | 363 | 182 | 290 | 1,597 | 1,198 | 0 | 4,029 |
| 1987 | 254 | 72 | 54 | 0 | 163 | 0 | 163 | 72 | 181 | 580 | 507 | 0 | 2,046 |
| 1988 | 564 | 55 | 18 | 164 | 273 | 36 | 364 | 255 | 18 | 1,110 | 0 | 0 | 2,857 |
| 1989 | 414 | 51 | 59 | 110 | 169 | 17 | 296 | 76 | 363 | 617 | 25 | 330 | 2,527 |
| 1990 | 208 | 149 | 99 | 69 | 149 | 50 | 149 | 0 | 119 | 1,506 | 179 | 0 | 2,677 |
| 1991 | 397 | 71 | 62 | 230 | 168 | 0 | 44 | 97 | 88 | 1,280 | 460 | 0 | 2,897 |
| 1992 | 526 | 164 | 33 | 123 | 189 | 58 | 370 | 140 | 394 | 1,356 | 115 | 0 | 3,468 |
| 1993 | 528 | 120 | 0 | 106 | 39 | 0 | 237 | 241 | 183 | 2,560 | 113 | 10 | 4,137 |
| 1994 | 383 | 28 | 0 | 82 | 102 | 0 | 85 | 66 | 133 | 2,278 | 286 | 0 | 3,443 |
| 1995 | 430 | 73 | 0 | 0 | 98 | 52 | 481 | 0 | 220 | 2,082 | 145 | 101 | 3,682 |
| 1996 | 113 | 191 | 0 | 95 | 8 | 67 | 88 | 0 | 43 | 2,053 | 17 | 0 | 2,675 |
| 1997 | 119 | 85 | 41 | 30 | 190 | 70 | 144 | 11 | 60 | 4,931 | 170 | 0 | 5,851 |
| 1998 | 86 | 43 | 0 | 0 | 103 | 0 | 195 | 30 | 68 | 4,546 | 788 | 0 | 5,859 |
| 1999 | 162 | 64 | 11 | 0 | 112 | 32 | 248 | 184 | 0 | 3,197 | 382 | 216 | 4,608 |
| 2000 | 307 | 55 | 0 | 42 | 122 | 0 | 346 | 213 | 199 | 4,683 | 225 | 317 | 6,509 |
| 2001 | 244 | 70 | 58 | 0 | 269 | 48 | 584 | 77 | 48 | 4,797 | 344 | 237 | 6,776 |
| 2002 | 215 | 31 | 0 | 0 | 122 | 30 | 199 | 0 | 31 | 2,615 | 110 | 74 | 3,427 |
| 2003 | 147 | 63 | 0 | 0 | 74 | 27 | 267 | 105 | 116 | 1,574 | 361 | 0 | 2,734 |
| 2004 | 110 | 45 | 0 | 0 | 20 | 0 | 336 | 33 | 109 | 2,399 | 55 | 0 | 3,107 |
| 2005 | 85 | 91 | 0 | 0 | 84 | 0 | 113 | 0 | 24 | 1,280 | 0 | 0 | 1,677 |
| 2006 | 378 | 55 | 183 | 0 | 18 | 0 | 499 | 0 | 44 | 110 | 60 | 65 | 1,412 |
| 2007 | 90 | 201 | 0 | 0 | 45 | 0 | 89 | 0 | 0 | 952 | 93 | 0 | 1,470 |
| 2008 | 45 | 30 | 0 | 0 | 32 | 120 | 794 | 205 | 75 | 1,517 | 157 | 0 | 2,975 |
| 2009 | 96 | 13 | 36 | 0 | 48 | 17 | 184 | 299 | 50 | 6,137 | 444 | 0 | 7,324 |
| 2010 | 0 | 15 | 149 | 0 | 15 | 0 | 134 | 0 | 17 | 3,382 | 202 | 0 | 3,914 |
| 2011 | 185 | 0 | 0 | 15 | 0 | 0 | 0 | 186 | 56 | 1,458 | 247 | 0 | 2,147 |
| 2012 | 48 | 20 | 0 | 0 | 16 | 0 | 59 | 63 | 28 | 3,817 | 226 | 0 | 4,277 |
| 2006-2010 | | | | | | | | | | | | | |
| Average | 58 | 65 | 46 | 0 | 35 | 34 | 300 | 126 | 36 | 2,997 | 224 | 0 | 3,921 |

^a Talkeetna River and tributaries including Clear Creek and Larson Creek.

^b Other includes lakes and streams for 1977–1982.

Table 42.—Westside Susitna River drainage sockeye salmon harvest by fishery, 1977–2012.

| Year | Alexander Creek | Deshka River | Rabideux Creek | Yentna River | Lake Creek | Fish Talachulitna Creek ^a | Judd Lake | Other Streams ^b | Other Lakes ^b | Total | |
|-----------|--------------------|-----------------|-------------------|-----------------|---------------|---|--------------|-------------------------------|-----------------------------|-------|-------|
| 1977 | 349 | 0 | | | 658 | | 457 | 24 | 842 | 456 | 2,786 |
| 1978 | 183 | 0 | | | 254 | | 141 | 70 | 662 | 324 | 1,634 |
| 1979 | 79 | 0 | | | 440 | | 47 | 220 | 362 | 410 | 1,557 |
| 1980 | 52 | 0 | | | 267 | | 112 | 267 | 34 | 379 | 1,111 |
| 1981 | 67 | 0 | | | 211 | | 172 | | 594 | 364 | 1,408 |
| 1982 | 335 | 0 | | | 252 | | 63 | | 1,320 | 911 | 2,881 |
| 1983 | 69 | 0 | | | 726 | | 41 | 0 | 1,370 | 1,314 | 3,549 |
| 1984 | 87 | 125 | | | 374 | | 262 | 312 | 1,395 | 860 | 3,415 |
| 1985 | 261 | 50 | | | 137 | | 50 | | 772 | 1,032 | 2,302 |
| 1986 | 0 | 11 | | | 547 | 1,273 | 424 | 514 | 1,173 | 134 | 4,076 |
| 1987 | 72 | 272 | | | 435 | 398 | 290 | 580 | 163 | 217 | 2,427 |
| 1988 | 55 | 146 | | | 291 | 146 | 800 | 182 | 1,038 | 509 | 3,167 |
| 1989 | 260 | 217 | 9 | 139 | 121 | 165 | 251 | 130 | 547 | 468 | 2,307 |
| 1990 | 30 | 189 | 0 | 20 | 358 | 89 | 189 | | 646 | 417 | 1,938 |
| 1991 | 136 | 262 | 155 | 0 | 262 | 475 | 78 | 233 | 968 | 514 | 3,083 |
| 1992 | 123 | 82 | 0 | 107 | 115 | 189 | 205 | | 1,331 | 764 | 2,916 |
| 1993 | 45 | 87 | | 103 | 489 | 412 | 171 | | 724 | 130 | 2,161 |
| 1994 | 38 | 0 | | 237 | 430 | 142 | 237 | | 653 | 182 | 1,919 |
| 1995 | 94 | 42 | | 239 | 392 | 178 | 191 | | 879 | 91 | 2,106 |
| 1996 | 0 | 8 | | 0 | 137 | 68 | 108 | | 794 | | 1,115 |
| 1997 | 61 | 11 | | 410 | 1,656 | 209 | 335 | | 427 | 0 | 3,109 |
| 1998 | 86 | 57 | 0 | 232 | 868 | 168 | 181 | | 871 | | 2,463 |
| 1999 | 205 | 50 | | 324 | 2,604 | 865 | 337 | | 894 | 0 | 5,279 |
| 2000 | 1,440 | 339 | | 761 | 1,767 | 226 | 162 | | 251 | | 4,946 |
| 2001 | 544 | 249 | | 397 | 3,149 | 714 | 159 | | 1062 | 37 | 6,311 |
| 2002 | 257 | 67 | | 94 | 526 | 238 | 278 | | 421 | 0 | 1,881 |
| 2003 | 138 | 0 | | 137 | 6,900 | 162 | 233 | | 1090 | 0 | 8,660 |
| 2004 | 0 | 154 | | 247 | 1,977 | 392 | 339 | | 249 | | 3,358 |
| 2005 | 0 | 70 | | 54 | 1,622 | 410 | 34 | | 29 | | 2,219 |
| 2006 | 66 | 92 | 11 | 48 | 214 | 0 | 195 | 0 | | | 626 |
| 2007 | 30 | 128 | 0 | 604 | 1,341 | 221 | 816 | 37 | 0 | 0 | 3,177 |
| 2008 | 0 | 0 | 0 | 141 | 737 | 197 | 246 | 107 | 0 | 0 | 1,428 |
| 2009 | 0 | 10 | 0 | 547 | 1,256 | 37 | 11 | 0 | 497 | 0 | 2,358 |
| 2010 | 0 | 33 | 0 | 560 | 407 | 20 | 424 | 0 | 61 | 0 | 1,505 |
| 2011 | 0 | 0 | 0 | 497 | 1,351 | 131 | 737 | 0 | 0 | 0 | 2,716 |
| 2012 | 0 | 0 | 0 | 231 | 669 | 0 | 111 | 0 | 107 | 0 | 1,118 |
| 2006-2010 | | | | | | | | | | | |
| Average | 8 | 43 | | 463 | 935 | 119 | 374 | | 140 | 0 | 2,117 |

^a Yentna River drainage.

^b May include harvest from West Cook Inlet waters.

Table 43.—Northern Cook Inlet Management Area recreational harvest of sockeye salmon by management unit, 1977–2012.

| Year | Knik Arm | Eastside Susitna | Westside Susitna | West Cook Inlet | Total |
|-----------|----------|------------------|------------------|-----------------|--------|
| 1977 | 1,576 | 3,594 | 2,786 | 6 | 7,962 |
| 1978 | 1,239 | 267 | 1,634 | 0 | 3,140 |
| 1979 | 3,616 | 1,020 | 1,557 | 0 | 6,193 |
| 1980 | 5,674 | 873 | 1,111 | 0 | 7,658 |
| 1981 | 6,080 | 833 | 1,408 | 48 | 8,369 |
| 1982 | 4,621 | 1,555 | 2,881 | 10 | 9,067 |
| 1983 | 14,297 | 3,221 | 3,549 | 466 | 21,533 |
| 1984 | 9,240 | 2,705 | 3,415 | 249 | 15,609 |
| 1985 | 5,612 | 1,465 | 2,302 | 461 | 9,840 |
| 1986 | 6,009 | 4,029 | 4,076 | 89 | 14,203 |
| 1987 | 8,785 | 2,046 | 2,427 | 272 | 13,530 |
| 1988 | 8,076 | 2,857 | 3,167 | 473 | 14,573 |
| 1989 | 9,040 | 2,527 | 2,307 | 529 | 14,403 |
| 1990 | 6,588 | 2,677 | 1,938 | 636 | 11,839 |
| 1991 | 4,968 | 2,897 | 3,083 | 765 | 11,713 |
| 1992 | 5,349 | 3,468 | 2,916 | 188 | 11,921 |
| 1993 | 5,926 | 4,137 | 2,161 | 2,355 | 14,579 |
| 1994 | 5,082 | 3,443 | 1,919 | 2,035 | 12,479 |
| 1995 | 4,349 | 3,682 | 2,106 | 1,304 | 11,441 |
| 1996 | 4,307 | 2,675 | 1,115 | 2,951 | 11,048 |
| 1997 | 4,095 | 5,851 | 3,109 | 2,174 | 15,229 |
| 1998 | 5,499 | 5,859 | 2,463 | 2,522 | 16,343 |
| 1999 | 3,658 | 4,608 | 5,279 | 2,990 | 16,535 |
| 2000 | 7,536 | 6,509 | 4,946 | 4,244 | 23,235 |
| 2001 | 4,328 | 6,776 | 6,311 | 3,150 | 20,565 |
| 2002 | 4,619 | 3,427 | 1,881 | 2,019 | 11,946 |
| 2003 | 6,606 | 2,734 | 8,660 | 4,708 | 22,708 |
| 2004 | 7,148 | 3,107 | 3,358 | 3,323 | 16,936 |
| 2005 | 3,460 | 1,677 | 2,219 | 4,025 | 11,381 |
| 2006 | 4,622 | 1,412 | 626 | 4,993 | 11,653 |
| 2007 | 7,030 | 1,470 | 3,177 | 8,187 | 19,864 |
| 2008 | 6,910 | 2,975 | 1,428 | 5,652 | 16,965 |
| 2009 | 5,997 | 7,324 | 2,358 | 4,261 | 19,940 |
| 2010 | 4,215 | 3,914 | 1,505 | 2,393 | 12,027 |
| 2011 | 3,719 | 2,459 | 3,413 | 4,412 | 14,003 |
| 2012 | 4,423 | 4,277 | 1,118 | 4,966 | 14,784 |
| Average | | | | | |
| 1977-2010 | 5,769 | 3,165 | 2,799 | 1,985 | 13,718 |
| 2006-2010 | 5,604 | 2,972 | 1,962 | 5,424 | 15,961 |

Table 44.–West Cook Inlet drainage sockeye salmon harvest by fishery, 1977–2012.

| Year | Chuitna River | Theodore River | Lewis River | Kustatan River | Big River Lakes ^a | Susitna R.- N. Foreland | South of Foreland | N. Foreland | Other ^b | Total |
|-----------|---------------|----------------|-------------|----------------|------------------------------|-------------------------|-------------------|-------------|--------------------|-------|
| 1977 | 6 | 0 | 0 | | | | | | | 6 |
| 1978 | 0 | 0 | 0 | | | | | | | 0 |
| 1979 | 0 | 0 | 0 | | | | | | | 0 |
| 1980 | 0 | 0 | 0 | | | | | | | 0 |
| 1981 | 48 | 0 | | | | | | | | 48 |
| 1982 | 10 | 0 | | | | | | | | 10 |
| 1983 | 356 | 0 | | 110 | | | | | | 466 |
| 1984 | 62 | 0 | | 187 | | | | | | 249 |
| 1985 | 274 | 25 | 0 | 162 | | | | | | 461 |
| 1986 | 22 | 67 | | 0 | | | | | | 89 |
| 1987 | 272 | 0 | 0 | 0 | | | | | | 272 |
| 1988 | 437 | 18 | 0 | 18 | | | | | | 473 |
| 1989 | 43 | 52 | 0 | 165 | | | | | 269 | 529 |
| 1990 | 139 | 50 | 0 | 10 | 437 | | | | | 636 |
| 1991 | 552 | 10 | 0 | 203 | | | | | | 765 |
| 1992 | 8 | 49 | | 131 | | | | | | 188 |
| 1993 | 46 | 35 | 0 | 289 | 976 | | 229 | 780 | | 2,355 |
| 1994 | 0 | 9 | | 285 | 1,013 | | 114 | 614 | | 2,035 |
| 1995 | 62 | 0 | | 44 | 998 | | 159 | 41 | | 1,304 |
| 1996 | 228 | 0 | | 102 | 2,028 | 127 | 152 | 314 | | 2,951 |
| 1997 | 170 | 0 | | 274 | 1,171 | 150 | 409 | 0 | | 2,174 |
| 1998 | 235 | 8 | | 314 | 1,282 | 266 | 288 | 129 | | 2,522 |
| 1999 | 194 | 0 | | 186 | 1,783 | 76 | 464 | 287 | | 2,990 |
| 2000 | 58 | 42 | | 210 | 3,047 | 210 | 677 | 0 | | 4,244 |
| 2001 | 634 | 0 | | 293 | 992 | 201 | 1,030 | 0 | | 3,150 |
| 2002 | 585 | 0 | 0 | 232 | 664 | 24 | 160 | 354 | | 2,019 |
| 2003 | 179 | 24 | 0 | 397 | 3,491 | 94 | 372 | 151 | | 4,708 |
| 2004 | 23 | 0 | | 89 | 2,793 | 294 | 23 | 101 | | 3,323 |
| 2005 | 123 | | | 95 | 3,401 | 121 | 139 | 146 | | 4,025 |
| 2006 | 0 | 11 | 0 | 95 | 3,980 | 306 | 458 | 143 | | 4,993 |
| 2007 | 104 | 0 | 0 | 102 | 7,028 | 252 | 568 | 133 | | 8,187 |
| 2008 | 0 | 0 | 0 | 429 | 4,436 | 238 | 393 | 156 | | 5,652 |
| 2009 | 0 | 0 | 0 | 157 | 3,746 | 120 | 238 | 0 | | 4,261 |
| 2010 | 0 | 0 | 0 | 176 | 837 | 57 | 1,247 | 76 | | 2,393 |
| 2011 | 17 | 0 | 0 | 0 | 3,932 | 307 | 156 | 0 | | 4,412 |
| 2012 | 0 | 0 | 0 | 0 | 4,474 | 144 | 80 | 268 | | 4,966 |
| <hr/> | | | | | | | | | | |
| 2006-2010 | | | | | | | | | | |
| Average | 26 | 0 | | 216 | 4,012 | 167 | 612 | 91 | | 5,123 |

^a Majority of harvest occurs at the mouth of Wolverine Creek.

^b Includes lakes and streams. Beginning in 1999 includes saltwater shoreline.

Table 45.—Sockeye salmon escapement estimates from Northern Cook Inlet Management Area drainages by management unit, 1969–2012.

| Year | Management Units | | | | | | | | | | | | | | | | |
|------|------------------------------------|---------------------------|--------------------|------------------|--------------------------|---------------------|-----------------|----------------------|---------------------|---------------|--------------------|---------------------|-----------------|---------|------------------|------------------------------|---------------------------|
| | Knik Arm | | | Eastside Susitna | | | | Westside Susitna | | | | | West Cook Inlet | | | | |
| | Little Susitna R weir ^a | Fish Ck weir ^b | Cottonwood Ck weir | Wasilla Ck weir | Jim Ck weir ^c | Larson Lk weir | Stephan Lk weir | Yentna R sonar | Chelatna Lk weir | Judd Lk. weir | Shell Lk weir | Hewitt Lk weir | Byers Lk | Swan Lk | Crescent R sonar | Packers Ck weir ^q | Wolverine Ck ^d |
| 1969 | | 12,456 | | | | | | | | | | | | | | | |
| 1970 | | 25,000 | | | | | | | | | | | | | | | |
| 1971 | | 31,470 | | | | | | | | | | | | | | | |
| 1972 | | 6,981 | | | | | | | | | | | | | | | |
| 1973 | | 2,705 | | | | | | | | | | | | | | | |
| 1974 | | 16,225 | | | | | | | | | | | | | | | |
| 1975 | | 29,882 | | | | | | | | | | | | | | | |
| 1976 | | 14,032 | | | | | | | | | | | | | | | |
| 1977 | | 5,183 | | | | | | | | | | | | | | | |
| 1978 | | 3,555 | | | | | | | | | | | | | | | |
| 1979 | | 68,739 ^e | | | | | | | | | | | | | 87,000 | | |
| 1980 | | 62,828 ^{e,f} | | | | | | | | | | | | | 91,000 | 16,477 | |
| 1981 | | 50,479 ^{e,f} | | | | | | 139,401 ^p | | | | | | | 41,000 | 13,024 | 17,822 ^g |
| 1982 | | 28,164 ^f | | | | | | 113,847 ^p | | | | | | | 59,000 | 15,687 | 32,950 ^g |
| 1983 | | 118,797 ^{e,f} | | | | | | 104,414 ^p | | | | | | | 92,000 | 18,403 | 18,189 ^g |
| 1984 | | 192,352 ^{e,f} | | | | 35,254 ^h | | 149,375 ^p | | | | | | | 118,000 | 30,684 | |
| 1985 | | 68,577 ^{e,f} | | | | 37,874 ^h | | 107,124 ^p | | | | | | | 129,000 | 36,850 | |
| 1986 | | 29,800 ^{e,f} | | | | 32,322 ^h | | 92,000 | | | 4,237 ⁱ | | | | N/C | 29,604 | |
| 1987 | | 91,215 ^{e,f} | | | | 16,753 ^h | | 66,000 | | | | | | | 119,000 | 35,401 | |
| 1988 | 2,642 | 71,603 ^{e,f} | | | | | | 52,347 | | | | | | | 57,716 | 18,607 | |
| 1989 | 6,203 | 67,224 ^{e,f} | | | | | | 96,269 | | | | | | | 71,064 | 22,304 | |
| 1990 | | 48,717 ^{e,f} | | | | | | 140,379 | | | | 12,943 ^j | | | 52,180 | 31,868 | |
| 1991 | | 50,500 ^{e,f} | | | | | | 105,000 | | | | | | | 44,500 | 41,275 | |
| 1992 | | 72,108 ^{e,f} | | | | | | 66,057 | | | | | | | 58,227 | 28,361 | |
| 1993 | | 117,619 ^{e,f} | | | 3,548 | | | 141,694 | 20,235 ^k | | | | | | 37,556 | 40,869 | |
| 1994 | 16,918 | 100,638 ^e | | | 5,197 | | | 128,032 | 28,303 ^k | | | | | | 30,355 | 30,788 | |
| 1995 | 7,129 | 115,101 ^e | | | | | | 121,479 | 20,104 ^k | | | | | | 52,250 | 29,473 | |
| 1996 | | 63,164 ^e | | | | | | 90,781 | 28,684 ^k | | | | | | 28,729 | 17,767 | |
| 1997 | | 55,035 ^e | 8,224 | | | 40,112 | | 157,797 | 84,899 ^k | | | | | | 70,768 | 19,364 | |
| 1998 | | 22,865 ^e | 27,930 | 840 | | 63,514 | | 119,623 | 27,284 ^k | 34,416 | | | | | 62,257 | 17,732 | |

-continued-

Table 45.–Page 2 of 2.

| Year | Management Units | | | | | | | | | | | | | | | | |
|---------------|------------------------------------|---------------------------|--------------------|-----------------|--------------------------|-------------------|-----------------|----------------|-------------------|-------------------|---------------|----------------|----------|-------------------|-------------------|------------------------------|---------------------------|
| | Knik Arm | | | | | Eastside Susitna | | | Westside Susitna | | | | | | West Cook Inlet | | |
| | Little Susitna R weir ^a | Fish Ck weir ^b | Cottonwood Ck weir | Wasilla Ck weir | Jim Ck weir ^c | Larson Lk weir | Stephan Lk weir | Yentna R sonar | Chelatna Lk weir | Judd Lk weir | Shell Lk weir | Hewitt Lk weir | Byers Lk | Swan Lk | Crescent R sonar | Packers Ck weir ^q | Wolverine Ck ^d |
| 1999 | | 26,725 ^e | 39,572 | 854 | | 18,943 | 99,029 | | | | | | | 68,985 | 16,860 | | |
| 2000 | | 19,533 ^e | 16,921 | 245 | | 11,822 | 123,749 | | | | | | | 56,599 | 20,151 | | |
| 2001 | | 43,498 ^e | 15,229 | 198 | | | 83,532 | | | | | | | 78,081 | no count | | |
| 2002 | | 90,482 ^e | 6,791 | 1,354 | | | 78,430 | | | | | | | 62,833 | no count | | |
| 2003 | | 91,952 ^e | 4,601 | 757 | | | 181,404 | | | | | | | 122,909 | no count | | |
| 2004 | | 22,157 ^e | 3,127 | | | | 71,281 | | | | | | | 103,183 | no count | 10,541 ^l | |
| 2005 | | 14,215 ^e | | | | 9,959 | 36,921 | | | | | | | 125,787 | 22,000 | 15,625 ^{l,m} | |
| 2006 | | 32,562 ^e | | | | 56,305 | 92,045 | 13,266 | 40,630 | 69,747 | 2,507 | 3,074 | | 92,533 | no count | 2,000 ^{l,m} | |
| 2007 | | 27,948 ^e | | | | 47,819 | 4,120 | 79,901 | 11,671 | 58,134 | 26,784 | | 1,701 | 5,489 | 79,406 | 46,637 | |
| 2008 | | 19,339 ^e | | | | 35,040 | 5,000 | 90,146 | 73,469 | 54,304 | 2,624 | | 1,492 | 4,037 | 62,030 | 25,247 | |
| 2009 | | 83,480 ^e | | | | 41,929 | | ⁿ | 17,865 | 43,153 | 4,961 | | | no count | 16,473 | | |
| 2010 | | 126,836 ^e | | | | 20,324 | | ⁿ | 37,784 | 18,361 | 2,222 | | | 86,333 | no count | | |
| 2011 | | 66,678 | | | | 12,393 | | ⁿ | 70,353 | 39,997 | 937 | | | 81,952 | no count | | |
| 2012 | | 18,823 | | | | 16,708 | | ⁿ | 36,577 | 18,303 | No count | | | 58,838 | no count | | |
| 1979–2010 Ave | | 65,445 | 15,299 | 708 | – | 33,810 | – | 104,573 | 34,213 | – | – | – | – | 74,274 | 26,060 | – | |
| 2001–2010 Ave | – | 55,247 | – | – | – | – | – | 89,208 | – | – | – | – | – | 90,344 | – | – | |
| 2006–2010 Ave | – | 58,033 | – | – | – | – | – | 87,364 | – | – | – | – | – | 80,076 | – | – | |
| SEG | | 20,000– 70,000 | | | | 15,000– 50,000 | | | 20,000– 65,000 | 25,000– 55,000 | | | | 30,000– 50,000 | 15,000– 30,000 | | |

Note: Dashes indicate value can't be computed due to limitations of the data. SEG = sustainable escapement goal. OEG = optimum escapement goal.

^a Sources (Bartlett and Vincent-Lang 1989; Bartlett and Sonnichsen 1990; Bartlett 1996 a-b).

^b Fish Creek weir locations: river mile (rm) 0.6 (1969–1982), about rm 7.5 (1983–1991), and rm 3.0 (1992–2006).

^c Bartlett (Unpublished b-c).

^d Tributary of Big River Lakes. Weir operated by Cook Inlet Aquaculture Association (CIAA) from 1981 to 1983. Remote camera operated by ADG&G from 2004 to 2006.

^e Hatchery-reared sockeye salmon contributed to Fish Creek drainage escapements in 1979–1981 and 1983–2010.

^f Foot survey counts below the Fish Creek weir site include in 1980–1993 data.

^g CIAA 1981-1982, 1984.

^h CIAA 1998b.

ⁱ CIAA 1987.

^j CIAA 1991.

^k CIAA 1998a.

^l Incomplete count. Problems with the video cassette recording (VCR) tapes self-ejecting and the digital video recorder (DVR) camera system was down for two weeks in 2005. Problems with the DVR camera system continued in 2006, and it did not operate for most of the season.

^m Includes 5,000 fish counted at the mouth in 2005 and 2,000 counted in 2006 on the day the camera was pulled.

ⁿ Bendix sonar counts discontinued.

^o SEG of 90,000–160,000 and OEG of 75,000–185,000 discontinued after 2008.

^p Davis 2000.

^q Remote camera used to count fish beginning 2005.

Table 46.–Bodenburg Creek (Knik River drainage) salmon escapement index surveys, 1968–2012.

| Year | Month | Date | Escapement index | |
|-------------------|-------|------|------------------|-------------|
| | | | Sockeye salmon | Chum salmon |
| 1968 | Aug | ND | 350 | 0 |
| 1969 | Sept | ND | 125 | 0 |
| 1970 | Aug | 25 | 83 | 0 |
| 1971 | Sept | 5 | 110 | 0 |
| 1972 | Aug | 31 | 464 | 0 |
| 1973 | Aug | 27 | 208 | 0 |
| 1974 | Sept | 6 | 169 | 0 |
| 1975 | Sept | 3 | 148 | 0 |
| | Sept | 19 | 0 | 3 |
| 1976 | Sept | 8 | 111 | 0 |
| 1977 | Aug | 29 | 178 | 0 |
| 1978 | Aug | 29 | 541 | 0 |
| 1979 | Aug | 29 | 321 | 0 |
| 1980 | Aug | 25 | 483 | 0 |
| 1981 | Aug | 19 | 260 | 0 |
| 1982 | Sept | 17 | 722 | 0 |
| 1983 | Aug | 31 | 359 | 0 |
| 1984 | ND | ND | ND | ND |
| 1985 | Sept | 5 | 232 | 0 |
| 1986 | Sept | 4 | 119 | 120 |
| 1987 | Sept | 3 | 77 | 1 |
| 1988 | ND | ND | ND | ND |
| 1989 | Aug | 31 | 190 | 6 |
| 1990 | Sept | 7 | 195 | 3 |
| 1991 | Aug | 27 | 0 | 1 |
| | Sept | 6 | 160 | 0 |
| 1992 | Aug | 29 | 54 | 0 |
| | Sept | 2 | 66 | 4 |
| 1993 | Aug | 24 | 212 | 14 |
| 1994 | Aug | 25 | 220 | 0 |
| | Sept | 6 | 0 | 93 |
| 1995 | Aug | 28 | 156 | 219 |
| 1996 | Sept | 4 | 111 | 0 |
| 1997 | Aug | 28 | 142 | 4 |
| 1998 | Aug | 21 | 156 | 13 |
| 1999 | Aug | 30 | 257 | 21 |
| 2000 | Aug | 28 | 228 | 5 |
| 2001 | Aug | 29 | 232 | 8 |
| 2002 | Aug | 30 | 320 | 25 |
| 2003 | Aug | 22 | 402 | 3 |
| 2004 | Aug | 26 | 283 | 0 |
| 2005 | Aug | 29 | 269 | 0 |
| 2006 | Aug | 28 | 367 | 6 |
| 2007 | Aug | 24 | 164 | 2 |
| 2008 | Aug | 28 | 442 | 0 |
| 2009 | Aug | 26 | 540 | 0 |
| 2010 | Aug | 30 | 722 | 24 |
| 2011 | Sept | 2 | 493 | 1 |
| 2012 | Sept | 10 | 60 | 18 |
| 1968-2010 Average | | | 243 | 13 |
| 2001-2010 Average | | | 374 | 7 |
| 2006-2010 Average | | | 447 | 6 |

Note: ND = no data because no attempts were made to collect it.

Table 47.—Northern Cook Inlet Management Area recreational catch and harvest of rainbow trout by management unit, 1977-2012.

| Year | Northern Cook Inlet Management Area | | | | | | | | | | Southcentral Region | | Statewide | |
|----------|-------------------------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|---------------------|---------|-----------|---------|
| | Knik Arm | | Eastside Susitna | | Westside Susitna | | West Cook Inlet | | Total | | Harvest | % NCIMA | Number | % NCIMA |
| | Catch ^a | Harvest | Catch ^a | Harvest | Catch ^a | Harvest | Catch ^a | Harvest | Catch ^a | Harvest | | | | |
| 1977 | | 18,615 | | 5,225 | | 7,472 | | 958 | | 32,270 | 80,345 | 40.2 | 94,307 | 34.2 |
| 1978 | | 23,139 | | 5,930 | | 12,295 | | 723 | | 42,087 | 107,243 | 39.2 | 120,231 | 35.0 |
| 1979 | | 24,843 | | 9,463 | | 12,555 | | 1,063 | | 47,924 | 129,815 | 36.9 | 139,390 | 34.4 |
| 1980 | | 29,368 | | 6,715 | | 12,785 | | 560 | | 49,428 | 126,686 | 39.0 | 153,476 | 32.2 |
| 1981 | | 41,749 | | 8,813 | | 11,296 | | 1,734 | | 63,592 | 149,460 | 42.5 | 178,613 | 35.6 |
| 1982 | | 30,549 | | 7,536 | | 11,465 | | 398 | | 49,948 | 142,579 | 35.0 | 173,242 | 28.8 |
| 1983 | | 26,421 | | 9,639 | | 9,253 | | 871 | | 46,184 | 141,705 | 32.6 | 168,677 | 27.4 |
| 1984 | | 26,418 | | 7,656 | | 8,079 | | 748 | | 42,901 | 128,649 | 33.3 | 170,117 | 25.2 |
| 1985 | | 46,431 | | 7,872 | | 8,114 | | 902 | | 63,319 | 142,316 | 44.5 | 181,991 | 34.8 |
| 1986 | | 27,690 | | 8,061 | | 6,668 | | 223 | | 42,642 | 114,873 | 37.1 | 152,855 | 27.9 |
| 1987 | | 24,663 | | 6,647 | | 8,020 | | 579 | | 39,909 | 101,397 | 39.4 | 138,698 | 28.8 |
| 1988 | | 58,609 | | 7,622 | | 8,058 | | 673 | | 74,962 | 155,960 | 48.1 | 241,831 | 31.0 |
| 1989 | | 44,518 | | 4,972 | | 4,928 | | 544 | | 54,962 | 127,444 | 43.1 | 209,961 | 26.2 |
| 1990 | 98,720 | 30,699 | 21,806 | 5,008 | 33,510 | 3,960 | 3,115 | 472 | 157,151 | 40,139 | 122,987 | 32.6 | 191,809 | 20.9 |
| 1991 | 88,645 | 39,636 | 26,329 | 7,854 | 46,870 | 4,526 | 1,756 | 497 | 163,600 | 52,513 | 127,492 | 41.2 | 205,642 | 25.5 |
| 1992 | 85,331 | 27,995 | 19,915 | 3,948 | 23,621 | 2,028 | 1,448 | 190 | 130,315 | 34,161 | 97,730 | 35.0 | 139,973 | 24.4 |
| 1993 | 69,635 | 21,565 | 24,240 | 3,713 | 29,911 | 2,481 | 1,788 | 191 | 125,574 | 27,950 | 82,312 | 34.0 | 136,681 | 20.4 |
| 1994 | 70,255 | 22,446 | 23,619 | 3,658 | 25,157 | 2,526 | 871 | 225 | 119,902 | 28,855 | 76,384 | 37.8 | 112,261 | 25.7 |
| 1995 | 56,108 | 14,878 | 15,363 | 3,138 | 23,432 | 1,757 | 1,222 | 111 | 96,125 | 19,884 | 74,972 | 26.5 | 112,681 | 17.6 |
| 1996 | 80,757 | 21,780 | 24,808 | 2,510 | 33,603 | 1,924 | 1,696 | 439 | 140,864 | 26,653 | 84,573 | 31.5 | 136,482 | 19.5 |
| 1997 | 85,278 | 25,695 | 34,742 | 2,324 | 30,217 | 1,452 | 2,371 | 618 | 152,608 | 30,089 | 67,261 | 44.7 | 100,372 | 30.0 |
| 1998 | 66,837 | 17,693 | 26,241 | 968 | 17,370 | 1,081 | 1,576 | 189 | 112,024 | 19,931 | 56,728 | 35.1 | 103,744 | 19.2 |
| 1999 | 84,691 | 24,527 | 39,753 | 1,755 | 37,864 | 1,866 | 2,617 | 277 | 164,925 | 28,425 | 77,707 | 36.6 | 132,481 | 21.5 |
| 2000 | 114,013 | 28,745 | 42,603 | 1,521 | 29,398 | 1,226 | 2,793 | 211 | 188,807 | 31,703 | 89,171 | 35.6 | 144,873 | 21.9 |
| 2001 | 70,821 | 21,061 | 32,904 | 1,112 | 27,697 | 759 | 3,341 | 270 | 134,763 | 23,202 | 57,629 | 40.3 | 81,279 | 28.5 |
| 2002 | 93,520 | 28,325 | 80,190 | 1,751 | 29,745 | 1,209 | 3,082 | 236 | 206,537 | 31,521 | 73,542 | 42.9 | 117,063 | 26.9 |
| 2003 | 68,212 | 17,617 | 59,440 | 2,581 | 40,327 | 1,425 | 1,698 | 264 | 169,677 | 21,887 | 53,155 | 41.2 | 84,531 | 25.9 |
| 2004 | 70,897 | 17,738 | 46,130 | 1,924 | 42,969 | 1,629 | 1,258 | 177 | 161,254 | 21,468 | 56,082 | 38.3 | 85,136 | 25.2 |
| 2005 | 59,870 | 14,367 | 36,188 | 793 | 46,575 | 339 | 791 | 196 | 143,424 | 15,695 | 39,790 | 39.4 | 60,826 | 25.8 |
| 2006 | 48,064 | 13,524 | 38,862 | 1,590 | 44,018 | 1,027 | 1,538 | 170 | 132,482 | 16,311 | 33,119 | 49.2 | 53,086 | 30.7 |
| 2007 | 40,742 | 10,613 | 64,077 | 840 | 32,036 | 619 | 2,124 | 216 | 138,979 | 12,288 | 30,361 | 40.5 | 50,231 | 24.5 |
| 2008 | 67,585 | 15,537 | 36,798 | 1,521 | 18,063 | 744 | 1,276 | 106 | 123,722 | 17,908 | 36,334 | 49.3 | 49,159 | 36.4 |
| 2009 | 39,983 | 7,981 | 36,707 | 691 | 27,455 | 865 | 1,322 | 10 | 105,467 | 9,547 | 23,365 | 40.9 | 35,976 | 26.5 |
| 2010 | 42,267 | 10,845 | 39,958 | 1,826 | 20,232 | 434 | 746 | 89 | 103,203 | 13,194 | 25,712 | 51.3 | 38,941 | 33.9 |
| 2011 | 44,805 | 9,368 | 63,725 | 977 | 38,060 | 341 | 843 | 43 | 147,433 | 10,729 | 23,073 | 46.5 | 32,098 | 33.4 |
| 2012 | 29,680 | 8,294 | 27,446 | 623 | 24,718 | 179 | 376 | 102 | 82,220 | 9,198 | 21,912 | 42.0 | 29,942 | 30.7 |
| Averages | | | | | | | | | | | | | | |
| 1977- | | | | | | | | | | | | | | |
| 2011 | 70,320 | 24,733 | 37,927 | 4,233 | 31,733 | 4,434 | 1,785 | 434 | 141,765 | 33,834 | 87,370 | 38.7 | 123,678 | 27.4 |
| 2007- | | | | | | | | | | | | | | |
| 2011 | 47,076 | 10,869 | 48,253 | 1,171 | 27,169 | 601 | 1,262 | 93 | 123,761 | 12,733 | 27,769 | 45.7 | 41,281 | 30.9 |

Table 48.—Eastside Susitna River drainage rainbow trout harvest by fishery, 1977–2012.

| Year | Willow Creek | Little Willow | Kashwitna River | Caswell Creek | Sheep Creek | Goose Creek | Montana Creek | Birch Creek | Sunshine Creek | Talkeetna ^a River | Other Streams ^b | Other Lakes | Total |
|-----------|--------------|---------------|-----------------|---------------|-------------|-------------|---------------|-------------|----------------|------------------------------|----------------------------|-------------|-------|
| 1977 | 1,055 | 224 | | | 368 | | 727 | | | 450 | 2,401 | | 5,225 |
| 1978 | 913 | 334 | | | 470 | | 1,193 | | | 1,501 | 1,519 | | 5,930 |
| 1979 | 1,500 | 345 | | 282 | 573 | | 1,536 | | 382 | 1,373 | 3,472 | | 9,463 |
| 1980 | 1,168 | 353 | | 154 | 385 | | 854 | | 193 | 950 | 2,658 | | 6,715 |
| 1981 | 1,475 | 374 | | 326 | 201 | | 1,111 | | 249 | 1,226 | 3,851 | | 8,813 |
| 1982 | 891 | 335 | | 189 | 325 | | 2,243 | | 545 | 608 | 2,400 | | 7,536 |
| 1983 | 1,689 | 514 | 357 | 231 | 409 | | 1,332 | | 178 | 1,836 | 1,656 | 1,437 | 9,639 |
| 1984 | 1,359 | 1,047 | 449 | 175 | 349 | 125 | 1,197 | | 374 | 910 | 598 | 1,073 | 7,656 |
| 1985 | 2,046 | 746 | | 139 | 191 | | 1,248 | | 416 | 832 | 1,266 | 988 | 7,872 |
| 1986 | 545 | 218 | 436 | 0 | 218 | 145 | 399 | 73 | 581 | 1,234 | 1,126 | 3,086 | 8,061 |
| 1987 | 1,141 | 1,213 | 471 | 308 | 507 | 272 | 417 | 36 | 72 | 869 | 471 | 870 | 6,647 |
| 1988 | 1,128 | 400 | 255 | 73 | 236 | 291 | 1,492 | 73 | 55 | 1,110 | 636 | 1,873 | 7,622 |
| 1989 | 906 | 277 | 675 | 37 | 240 | 240 | 407 | 37 | 259 | 822 | 443 | 629 | 4,972 |
| 1990 | 1,008 | 286 | 352 | 101 | 286 | 353 | 487 | | 168 | 1,109 | 320 | 538 | 5,008 |
| 1991 | 2,044 | 430 | 261 | 384 | 569 | 354 | 615 | 231 | 0 | 1,076 | 999 | 891 | 7,854 |
| 1992 | 712 | 293 | 87 | 47 | 55 | 79 | 467 | 16 | 79 | 665 | 404 | 1,044 | 3,948 |
| 1993 | 934 | 264 | 49 | 148 | 338 | 127 | 271 | 0 | 59 | 242 | 670 | 611 | 3,713 |
| 1994 | 1,161 | 337 | 114 | 53 | 254 | 173 | 241 | 0 | 8 | 262 | 467 | 588 | 3,658 |
| 1995 | 351 | 250 | 0 | 56 | 79 | 28 | 285 | 0 | 0 | 287 | 442 | 1,360 | 3,138 |
| 1996 | 551 | 113 | 63 | 21 | 73 | 68 | 443 | 0 | 95 | 284 | 354 | 445 | 2,510 |
| 1997 | 0 | 182 | 137 | 24 | 208 | 179 | 0 | 0 | 24 | 226 | 636 | 708 | 2,324 |
| 1998 | 0 | 113 | 42 | 0 | 157 | 42 | 0 | 17 | 144 | 179 | 173 | 101 | 968 |
| 1999 | 0 | 77 | 82 | 0 | 94 | 152 | 0 | 24 | 0 | 207 | 489 | 630 | 1,755 |
| 2000 | 91 | 48 | 61 | 12 | 189 | 36 | 0 | 0 | 7 | 197 | 265 | 615 | 1,521 |
| 2001 | 119 | 42 | 22 | 42 | 131 | 77 | 0 | 0 | 8 | 92 | 315 | 264 | 1,112 |
| 2002 | 209 | 54 | 37 | 0 | 248 | 58 | 0 | 0 | 0 | 90 | 150 | 905 | 1,751 |
| 2003 | 61 | 65 | 194 | 31 | 163 | 54 | 0 | 0 | 0 | 299 | 305 | 1409 | 2,581 |
| 2004 | 144 | 23 | 0 | 0 | 58 | 70 | 0 | 47 | 0 | 157 | 259 | 1166 | 1,924 |
| 2005 | 32 | 64 | 11 | 0 | 51 | 22 | 0 | 0 | 0 | 61 | 101 | 451 | 793 |
| 2006 | 103 | 94 | 73 | 22 | 52 | 34 | 0 | 12 | 0 | 125 | 43 | 1032 | 1,590 |
| 2007 | 10 | 71 | 0 | 0 | 157 | 0 | 0 | 0 | 0 | 186 | 216 | 200 | 840 |
| 2008 | 60 | 210 | 61 | 0 | 79 | 138 | 0 | 0 | 178 | 511 | 31 | 253 | 1,521 |
| 2009 | 62 | 96 | 0 | 0 | 0 | 18 | 0 | 0 | 13 | 34 | 167 | 366 | 756 |
| 2010 | 84 | 135 | 9 | 20 | 288 | 239 | 0 | 0 | 0 | 85 | 97 | 869 | 1,826 |
| 2011 | 0 | 0 | 101 | 202 | 88 | 0 | 0 | 0 | 0 | 154 | 102 | 411 | 1,058 |
| 2012 | 0 | 0 | 0 | 0 | 21 | 38 | 0 | 50 | 50 | 78 | 53 | 333 | 623 |
| 2007-2011 | | | | | | | | | | | | | |
| Average | 43 | 102 | 34 | 44 | 122 | 79 | 0 | 0 | 38 | 194 | 123 | 420 | 1,200 |

^a Talkeetna River and tributaries including Clear Creek.

^b Includes lakes and streams, 1977-1982.

Table 49.–Westside Susitna River drainage rainbow trout catch by fishery, 1990-2012.

| Year | Alexander Creek | Deshka River | Rabideux Creek | Yentna River | Peters Creek | Lake Creek | Fish Creek ^a | Talachulitna River | Other Streams ^b | Other Lakes ^b | Total |
|-------------------|--------------------|-----------------|-------------------|-----------------|-----------------|---------------|----------------------------|-----------------------|-------------------------------|-----------------------------|--------|
| 1990 | 3,065 | 6,197 | 34 | 135 | 1,532 | 8,757 | 707 | 10,761 | 2,474 | 1,431 | 35,093 |
| 1991 | 2,301 | 5,303 | 16 | 295 | 1,182 | 12,969 | 1,415 | 18,489 | 2,863 | 2,037 | 46,870 |
| 1992 | 1,124 | 3,396 | 142 | 214 | 633 | 5,399 | 768 | 7,892 | 2,123 | 1,930 | 23,621 |
| 1993 | 992 | 5,772 | | 101 | 331 | 9,232 | 647 | 8,824 | 3,329 | 683 | 29,911 |
| 1994 | 1,075 | 3,345 | | 201 | 646 | 10,387 | 740 | 6,646 | 1,536 | 763 | 25,339 |
| 1995 | 472 | 2,288 | | 1,638 | 644 | 5,546 | 596 | 6,286 | 3,499 | 2,463 | 23,432 |
| 1996 | 195 | 4,166 | | 507 | 709 | 7,655 | 572 | 16,488 | 3,311 | | 33,603 |
| 1997 | 1,034 | 2,355 | | 232 | 331 | 9,378 | 1,379 | 12,535 | 2,973 | | 30,217 |
| 1998 | 490 | 1,594 | | 846 | | 6,668 | 641 | 4,336 | 2,795 | | 17,370 |
| 1999 | 643 | 5,323 | | 446 | 152 | 15,310 | 2,144 | 11,072 | 2,774 | | 37,864 |
| 2000 | 759 | 6,146 | | 1,774 | 1,435 | 12,156 | 833 | 5,209 | 1,086 | | 29,398 |
| 2001 | 1335 | 8,300 | | 1,879 | 375 | 7,739 | 1335 | 7,027 | 727 | 75 | 28,792 |
| 2002 | 728 | 4,464 | | 518 | 1,954 | 11,622 | 679 | 6,283 | 3,497 | 0 | 29,745 |
| 2003 | 313 | 5,868 | | 768 | 510 | 22,460 | 176 | 9,721 | 511 | 0 | 40,327 |
| 2004 | 220 | 5,868 | | 1,514 | 381 | 22,130 | 2411 | 9,000 | 150 | 1295 | 42,969 |
| 2005 | 64 | 3,161 | | 2,521 | 838 | 21,197 | 260 | 17,060 | 1,433 | 41 | 46,575 |
| 2006 | 402 | 9,635 | | 1,752 | 195 | 28,013 | 395 | 2,883 | 707 | 36 | 44,018 |
| 2007 | 106 | 3,905 | 58 | 3,728 | 663 | 11,405 | 173 | 11,846 | 152 | 0 | 32,036 |
| 2008 | 0 | 2,070 | 0 | 1,974 | 268 | 10,267 | 624 | 2,249 | 580 | 31 | 18,063 |
| 2009 | 34 | 3,093 | 0 | 2,723 | 812 | 10,217 | 479 | 6,331 | 3,766 | 0 | 27,455 |
| 2010 | 0 | 1,334 | 0 | 1,886 | 326 | 10,011 | 122 | 5,242 | 734 | 1,130 | 20,785 |
| 2011 | 43 | 2,156 | 101 | 1,376 | 53 | 23,420 | 0 | 8,647 | 2,520 | 852 | 39,168 |
| 2012 | 0 | 556 | 24 | 1,238 | 0 | 12,321 | 204 | 7,109 | 3,249 | 17 | 24,718 |
| Average 2007-2011 | 37 | 2,512 | | 2,337 | 424 | 13,064 | 280 | 6,863 | 1,550 | 403 | 27,501 |

^a Fish Lake drainage (Yentna River drainage).

^b May include harvest from West Cook Inlet waters through 1995.

Table 50.—Knik Arm drainage rainbow trout harvest by fishery, 1977–2012

| Year | Little Susitna | Knik River ^a | Wasilla Creek | Cottonwood Ck | Big Lake ^b | Wasilla Lake | Finger Lake | Kepler L. Complex | Big Lake | Lucille Lake | Kalmbach Lake | Carpenter Lake | Knik Lake | Memory Lake | Seymour Lake | Bonnie Lakes | Nancy L. Complex | Other Streams ^c | Other Lakes | Total |
|-----------|----------------|-------------------------|---------------|---------------|-----------------------|--------------|-------------|-------------------|----------|--------------|---------------|----------------|-----------|-------------|--------------|--------------|------------------|----------------------------|-------------|--------|
| 1977 | 843 | | 252 | | | | 0 | 1,822 | 3,906 | 0 | | | | | | | 2,642 | 9,150 | | 18,615 |
| 1978 | 886 | | 45 | | | | 0 | 5,180 | 4,845 | 0 | | | | | | | 1,853 | 10,330 | | 23,139 |
| 1979 | 1,391 | | 500 | 1,736 | | 2,782 | 0 | 3,372 | 2,882 | 0 | | | | | | | 2,909 | 9,271 | | 24,843 |
| 1980 | 852 | | 121 | 1,085 | | 2,084 | 0 | 5,906 | 5,398 | 0 | | | | | | | 2,540 | 11,382 | | 29,368 |
| 1981 | 2,692 | 0 | 38 | 824 | | 2,261 | 0 | 8,200 | 9,810 | 0 | | | | | | | 4,723 | 13,201 | | 41,749 |
| 1982 | 1,551 | 0 | 63 | 786 | | 2,243 | 0 | 7,325 | 9,369 | 0 | | | | | | | 2,840 | 6,372 | | 30,549 |
| 1983 | 1,290 | 0 | 84 | 556 | | 1,804 | 0 | 3,986 | 4,102 | 0 | | | | | | | 4,846 | 1,490 | 8,263 | 26,421 |
| 1984 | 860 | 549 | 312 | 748 | | 848 | 0 | 9,128 | 4,938 | 0 | | | 382 | | | | 1,771 | 1,247 | 5,635 | 26,418 |
| 1985 | 1,294 | 780 | 260 | 590 | 347 | 1,231 | 3,381 | 14,011 | 6,953 | 35 | | | | | | | 2,514 | 1,197 | 13,838 | 46,431 |
| 1986 | 1,407 | 235 | 11 | 145 | 391 | 1,653 | 3,172 | 7,249 | 5,105 | 168 | | | | 726 | 736 | | 2,200 | 815 | 3,677 | 27,690 |
| 1987 | 447 | 58 | 126 | 301 | 204 | 680 | 2,476 | 7,758 | 2,476 | 3,379 | | | | | | | 2,728 | 427 | 3,603 | 24,663 |
| 1988 | 1,273 | 382 | 582 | 782 | 309 | 891 | 5,421 | 16,462 | 4,220 | 8,495 | | | | | | 910 | 5,439 | 964 | 12,479 | 58,609 |
| 1989 | 599 | 0 | 91 | 163 | 1,063 | 972 | 2,788 | 18,233 | 5,402 | 972 | 1,625 | | 872 | 590 | 445 | 945 | 3,696 | 117 | 5,945 | 44,518 |
| 1990 | 673 | 0 | 131 | 410 | 361 | 443 | 2,544 | 10,223 | 3,282 | 246 | | | | | | 738 | 2,182 | 1,131 | 8,335 | 30,699 |
| 1991 | 781 | 0 | 28 | 628 | 209 | 1,953 | 2,539 | 8,496 | 4,883 | 600 | | | 600 | 1,046 | | 363 | 2,818 | 545 | 14,147 | 39,636 |
| 1992 | 720 | 0 | 24 | 404 | 791 | 483 | 1,860 | 6,839 | 2,090 | 309 | 610 | 1,116 | 887 | 364 | 459 | 1,045 | 2,945 | 8 | 7,041 | 27,995 |
| 1993 | 186 | 0 | 30 | 475 | 228 | 630 | 2,037 | 2,930 | 2,073 | 424 | | | | 890 | 734 | 399 | 2,116 | 248 | 8,165 | 21,565 |
| 1994 | 300 | 0 | 135 | 425 | 393 | 735 | 2,666 | 3,551 | 2,260 | 156 | | | | 323 | 570 | 1,184 | 1,300 | 56 | 8,392 | 22,446 |
| 1995 | 326 | 0 | 37 | 413 | 150 | 390 | 1,887 | 2,648 | 1,371 | 249 | 543 | 393 | | 395 | | 365 | 785 | 119 | 4,797 | 14,878 |
| 1996 | 121 | 0 | 40 | 248 | 74 | 1,735 | 2,316 | 5,092 | 2,260 | | 221 | | | 53 | | | 753 | 189 | 8,678 | 21,780 |
| 1997 | 348 | 0 | 29 | 215 | 321 | 475 | 3,720 | 8,407 | 2,083 | 335 | | | | 406 | | 520 | 963 | 72 | 7,806 | 25,695 |
| 1998 | 59 | 0 | 0 | 390 | 412 | 483 | 1,804 | 3,167 | 1,358 | 214 | | | 984 | | | | 321 | 42 | 8,459 | 17,693 |
| 1999 | 253 | 0 | 0 | 93 | 2,114 | 762 | 3,301 | 5,391 | 1,501 | | | | | | | 572 | 611 | 81 | 9,135 | 24,527 |
| 2000 | 252 | 0 | | 218 | 355 | 1,037 | 3,511 | 7,469 | 1,475 | 116 | | | 1,569 | | | 223 | 1,900 | 84 | 10,536 | 28,745 |
| 2001 | 253 | 0 | | 613 | 182 | 305 | 1,534 | 4,197 | 905 | 1,107 | 92 | 42 | 634 | 604 | 117 | 81 | 1,349 | 25 | 9,021 | 21,061 |
| 2002 | 154 | 0 | 0 | 290 | 236 | 329 | 5,608 | 3,498 | 1,521 | 989 | 359 | 29 | 907 | 408 | 17 | 223 | 916 | 535 | 12,306 | 28,325 |
| 2003 | 140 | 0 | 0 | 32 | 11 | 511 | 1,326 | 3,625 | 884 | 1,194 | 98 | 230 | 786 | 247 | 224 | 107 | 1,601 | 0 | 6,601 | 17,617 |
| 2004 | 93 | 82 | 0 | 290 | 23 | 264 | 1,527 | 4,423 | 626 | 842 | 175 | 79 | 226 | 234 | 517 | 26 | 525 | 21 | 7,765 | 17,738 |
| 2005 | 51 | 22 | 88 | 44 | 0 | 535 | 1,358 | 3,657 | 752 | 391 | 155 | 44 | 66 | 395 | 144 | 22 | 771 | 120 | 5,752 | 14,367 |
| 2006 | 166 | 0 | 0 | 115 | 15 | 115 | 1,566 | 2,419 | 1,005 | 996 | 60 | 24 | 521 | 132 | 147 | 231 | 1,032 | 19 | 4,961 | 13,524 |
| 2007 | 197 | 0 | 0 | 802 | 11 | 131 | 573 | 1,903 | 332 | 79 | 236 | 29 | 117 | 0 | 69 | 94 | 1,078 | 53 | 4,909 | 10,613 |
| 2008 | 147 | 0 | 19 | 199 | 53 | 628 | 2,156 | 3,696 | 785 | 64 | 49 | 319 | 394 | 107 | 143 | 71 | 174 | 18 | 6,515 | 15,537 |
| 2009 | 79 | 0 | 52 | 9 | 30 | 89 | 893 | 2,497 | 299 | 148 | 61 | 100 | 216 | 502 | 54 | 88 | 274 | 0 | 2,590 | 7,981 |
| 2010 | 203 | 0 | 0 | 88 | 117 | 95 | 1,520 | 1,916 | 551 | 0 | 117 | 616 | 596 | 113 | 15 | 178 | 15 | 240 | 4,465 | 10,845 |
| 2011 | 13 | 24 | 0 | 61 | 0 | 289 | 2,095 | 1,637 | 887 | 101 | 0 | 0 | 385 | 290 | 81 | 61 | 40 | 56 | 3,490 | 9,510 |
| 2012 | 33 | 0 | 0 | 0 | 0 | 140 | 821 | 973 | 492 | 175 | 488 | 32 | 0 | 0 | 182 | 111 | 0 | 146 | 4,701 | 8,294 |
| 2007-2011 | | | | | | | | | | | | | | | | | | | | |
| Average | 128 | 5 | 14 | 232 | 42 | 246 | 1,447 | 2,330 | 571 | 78 | 93 | 213 | 342 | 202 | 72 | 98 | 316 | 73 | 4,394 | 10,897 |

^a Knik River and tributaries including Jim Creek.

^b Big Lake drainage streams.

^c Includes lakes and streams, 1977–1982.

Table 51.—Knik Arm drainage rainbow trout catch by fishery, 1990–2012.

| Year | Little Susitna | Knik River ^a | Wasilla Creek | Cotton-wood Ck | Big Lake ^b | Wasilla Lake | Finger Lake | Kepler L. Complex | Big Lake | Lucille Lake | Kalmbach Lake | Carpenter Lake | Knik Lake | Memory Lake | Seymour Lake | Bonnie Lakes | Nancy L. Complex | Other Streams | Other Lakes | Total |
|-----------|----------------|-------------------------|---------------|----------------|-----------------------|--------------|-------------|-------------------|----------|--------------|---------------|----------------|-----------|-------------|--------------|--------------|------------------|---------------|-------------|---------|
| 1990 | 1,953 | 0 | 607 | 2,183 | 2,100 | 1,707 | 5,645 | 35,085 | 8,123 | 1,034 | | | | | | 2,133 | 7,466 | 5,448 | 25,236 | 98,720 |
| 1991 | 1,507 | 0 | 28 | 795 | 614 | 2,916 | 4,576 | 18,986 | 10,588 | 670 | | | | 2,246 | 1,576 | 893 | 6,348 | 2,371 | 34,531 | 88,645 |
| 1992 | 2,319 | 0 | 40 | 1,987 | 2,375 | 1,544 | 6,087 | 24,887 | 5,296 | 602 | 3,103 | 1,868 | 1,504 | 1,314 | 712 | 3,309 | 7,765 | 64 | 20,555 | 85,331 |
| 1993 | 1,308 | 0 | 195 | 3,987 | 1,445 | 1,497 | 7,272 | 16,151 | 4,845 | 651 | | | | 1,523 | 1,224 | 2,356 | 5,130 | 367 | 21,684 | 69,635 |
| 1994 | 1,198 | 0 | 312 | 911 | 2,295 | 2,142 | 6,168 | 16,534 | 5,502 | 302 | | | | 1,230 | 1,413 | 2,657 | 4,372 | 282 | 24,932 | 70,255 |
| 1995 | 1,783 | 0 | 92 | 1,015 | 412 | 1,001 | 5,792 | 16,634 | 3,565 | 514 | 1,067 | 824 | | 863 | | 1,331 | 2,344 | 209 | 18,662 | 56,108 |
| 1996 | 323 | 0 | 40 | 1,153 | 171 | 4,384 | 6,494 | 24,201 | 8,023 | | | 252 | | 727 | | | 1,966 | 409 | 32,614 | 80,757 |
| 1997 | 1,029 | 0 | 53 | 992 | 476 | 938 | 9,218 | 27,065 | 6,357 | 610 | | | | | | 1,253 | 3,098 | 359 | 32,862 | 85,278 |
| 1998 | 319 | 0 | 94 | 1,878 | 1,276 | 1,405 | 6,789 | 16,175 | 5,298 | 1,385 | | 3,324 | 3,324 | | | | 1,173 | 151 | 27,570 | 66,837 |
| 1999 | 1,658 | 0 | 49 | 1,903 | 2,243 | 2,287 | 5,602 | 20,169 | 6,569 | | | | | 1,746 | | 1,658 | 3,538 | 421 | 36,848 | 84,691 |
| 2000 | 1,567 | | | 957 | 1,081 | 2,144 | 9,327 | 27,859 | 7,212 | 1,161 | | | | 4,163 | | 1,834 | 7,273 | 443 | 48,992 | 114,013 |
| 2001 | 1,794 | 0 | 58 | 3,016 | 548 | 1,499 | 4,313 | 16,349 | 4,546 | 3,616 | 215 | 1,040 | 1,447 | 2,098 | 175 | 328 | 3,874 | 351 | 25,554 | 80,821 |
| 2002 | 1,319 | 0 | 0 | 1,628 | 2,114 | 896 | 9,753 | 17,330 | 4,601 | 6,193 | 755 | 87 | 2,037 | 1,804 | 268 | 586 | 4,361 | 934 | 38,854 | 93,520 |
| 2003 | 1,568 | 0 | 130 | 1,727 | 206 | 2,230 | 5,217 | 16,575 | 5,614 | 4,842 | 455 | 1,685 | 1,698 | 343 | 1989 | 311 | 3,767 | 86 | 19,769 | 68,212 |
| 2004 | 1,368 | 1,414 | 0 | 726 | 1,239 | 1,720 | 5,030 | 19,991 | 3,253 | 2,330 | 1554 | 79 | 862 | 1,531 | 587 | 119 | 4,184 | 106 | 24,804 | 70,897 |
| 2005 | 772 | 259 | 221 | 628 | 33 | 1,468 | 4,833 | 13,823 | 5,937 | 1,727 | 464 | 376 | 0 | 1,828 | 199 | 508 | 1,994 | 485 | 24,315 | 59,870 |
| 2006 | 1,583 | 944 | 0 | 1,500 | 159 | 224 | 5,221 | 12,348 | 2,975 | 2,896 | 360 | 271 | 576 | 827 | 202 | 709 | 2,828 | 62 | 14,379 | 48,064 |
| 2007 | 995 | 0 | 94 | 3,612 | 213 | 657 | 1,851 | 9,737 | 3,039 | 695 | 870 | 190 | 204 | 278 | 748 | 709 | 2,371 | 154 | 14,325 | 40,742 |
| 2008 | 792 | 0 | 187 | 885 | 53 | 2,319 | 6,631 | 16,838 | 5,381 | 755 | 637 | 810 | 2,002 | 145 | 933 | 1,123 | 8,530 | 935 | 18,629 | 67,585 |
| 2009 | 644 | 34 | 496 | 255 | 245 | 774 | 4,867 | 14,712 | 2,963 | 777 | 249 | 118 | 277 | 1,687 | 274 | 407 | 1,711 | 52 | 9,441 | 39,983 |
| 2010 | 1,071 | 118 | 29 | 440 | 2,292 | 271 | 3,774 | 10,736 | 2,699 | 498 | 323 | 821 | 882 | 158 | 69 | 1,046 | 695 | 189 | 16,156 | 42,267 |
| 2011 | 352 | 35 | 101 | 162 | 20 | 353 | 5,444 | 13,609 | 5,278 | 455 | 89 | 223 | 1,174 | 411 | 613 | 202 | 73 | 283 | 10,650 | 39,527 |
| 2012 | 288 | 0 | 13 | 33 | 338 | 353 | 3,611 | 5,902 | 1,858 | 576 | 803 | 49 | 0 | 0 | 538 | 1,090 | 283 | 347 | 13,799 | 29,881 |
| 2007-2011 | | | | | | | | | | | | | | | | | | | | |
| Average | 771 | 37 | 181 | 1,071 | 565 | 875 | 4,513 | 13,126 | 3,872 | 636 | 434 | 432 | 908 | 536 | 527 | 697 | 2,676 | 323 | 13,840 | 46,021 |

^a Knik River and tributaries including Jim Creek.

^b Big Lake drainage streams.

Table 52.—Westside Susitna River drainage rainbow trout harvest by fishery, 1977–2012.

| Year | Alexander Creek | Deshka River | Rabideux Creek | Yentna River | Peters Creek | Lake Creek | Fish Creek ^a | Judd | Other Streams ^b | Other Lakes ^b | Total |
|-----------|--------------------|-----------------|-------------------|-----------------|-----------------|---------------|----------------------------|------|-------------------------------|-----------------------------|--------|
| 1977 | 1,251 | 1,556 | | | | 1,853 | | 68 | 1,677 | 1,067 | 7,472 |
| 1978 | 2,640 | 3,634 | | | | 2,721 | | 0 | 1,528 | 1,772 | 12,295 |
| 1979 | 1,182 | 3,182 | | | | 4,527 | Lake | 100 | 2,709 | 855 | 12,555 |
| 1980 | 1,945 | 4,305 | | | | 2,144 | | 86 | 2,101 | 2,204 | 12,785 |
| 1981 | 2,290 | 3,631 | | | | 2,874 | | | 872 | 1,629 | 11,296 |
| 1982 | 2,505 | 3,804 | | | | 3,134 | | | 597 | 1,425 | 11,465 |
| 1983 | 608 | 2,434 | | | | 2,287 | | 0 | 2,917 | 1,007 | 9,253 |
| 1984 | 785 | 2,120 | | | 611 | 3,080 | | 0 | 1,084 | 399 | 8,079 |
| 1985 | 1,318 | 3,104 | | | | 1,439 | | | 1,387 | 866 | 8,114 |
| 1986 | 1,553 | 3,038 | | | | 961 | 45 | 0 | 614 | 457 | 6,668 |
| 1987 | 978 | 3,006 | | | | 1,902 | 398 | 0 | 1,357 | 379 | 8,020 |
| 1988 | 1,419 | 4,075 | | | 73 | 1,146 | 109 | 18 | 672 | 546 | 8,058 |
| 1989 | 486 | 1,676 | 0 | 38 | 162 | 676 | 428 | 105 | 576 | 781 | 4,928 |
| 1990 | 640 | 707 | 17 | 0 | 303 | 808 | 135 | | 810 | 540 | 3,960 |
| 1991 | 917 | 1,275 | 0 | 140 | 295 | 498 | 358 | 0 | 810 | 233 | 4,526 |
| 1992 | 198 | 459 | 24 | 127 | 214 | 214 | 79 | | 349 | 364 | 2,028 |
| 1993 | 128 | 452 | | 36 | 49 | 184 | 172 | | 1,163 | 297 | 2,481 |
| 1994 | 207 | 415 | | 123 | 146 | 714 | 93 | | 613 | 215 | 2,526 |
| 1995 | 86 | 183 | | 140 | 46 | 565 | 360 | | 588 | 89 | 2,057 |
| 1996 | 95 | 321 | | 146 | 227 | 616 | 51 | | 468 | | 1,924 |
| 1997 | 0 | 264 | | 0 | 80 | 436 | 56 | | 616 | | 1,452 |
| 1998 | 0 | 218 | | 0 | | 285 | 124 | | 454 | | 1,081 |
| 1999 | 0 | 561 | | 59 | 70 | 640 | 168 | | 368 | | 1,866 |
| 2000 | 0 | 205 | | 151 | 71 | 567 | 85 | | 147 | 0 | 1,226 |
| 2001 | 0 | 270 | | 156 | 56 | 183 | 33 | | 20 | 41 | 759 |
| 2002 | 13 | 417 | | 0 | 29 | 445 | 119 | | 186 | 0 | 1,209 |
| 2003 | 0 | 368 | | 154 | 48 | 561 | 77 | | 217 | 0 | 1,425 |
| 2004 | 0 | 938 | | 0 | 23 | 587 | 27 | | 54 | 0 | 1,629 |
| 2005 | 0 | 60 | | 52 | 11 | 209 | 0 | | 7 | 0 | 339 |
| 2006 | 0 | 523 | | 96 | 39 | 159 | 198 | 0 | 0 | 12 | 1,027 |
| 2007 | 0 | 185 | 29 | 52 | 117 | 236 | 0 | 0 | 0 | 0 | 619 |
| 2008 | 0 | 419 | 0 | 134 | 10 | 153 | 13 | 0 | 0 | 15 | 744 |
| 2009 | 0 | 562 | 0 | 86 | 122 | 27 | 0 | 0 | 43 | 25 | 865 |
| 2010 | 0 | 122 | 0 | 57 | 0 | 154 | 0 | 0 | 0 | 101 | 434 |
| 2011 | 0 | 0 | 20 | 119 | 27 | 143 | 0 | 26 | 72 | 107 | 514 |
| 2012 | 0 | 61 | 11 | 0 | 0 | 76 | 0 | 0 | 31 | 0 | 179 |
| 2007-2011 | | | | | | | | | | | |
| Average | 0 | 258 | | 90 | 55 | 143 | 3 | | 23 | 50 | 635 |

^a Fish Lake drainage (Yentna River drainage).

^b May include harvest from West Cook Inlet waters through 1995.

Table 53.—Eastside Susitna River drainage rainbow trout catch by fishery, 1990–2012.

| Year | Willow Creek | Little Willow | Kashwitna River | Caswell Creek | Sheep Creek | Goose Creek | Montana Creek | Birch Creek | Sunshine Creek | Talkeetna River ^a | Other Streams | Other Lakes | Total |
|-----------|--------------|---------------|-----------------|---------------|-------------|-------------|---------------|-------------|----------------|------------------------------|---------------|-------------|--------|
| 1990 | 3,914 | 689 | 1,630 | 689 | 840 | 1,378 | 1,277 | | 622 | 4,788 | 3,913 | 2,066 | 21,806 |
| 1991 | 3,965 | 1,230 | 692 | 446 | 1,076 | 2,183 | 2,136 | 307 | 154 | 5,072 | 6,347 | 2,721 | 26,329 |
| 1992 | 3,206 | 1,124 | 293 | 142 | 633 | 617 | 2,501 | 40 | 103 | 5,581 | 2,754 | 2,921 | 19,915 |
| 1993 | 3,934 | 829 | 995 | 217 | 967 | 2,054 | 2,034 | 49 | 407 | 5,685 | 4,441 | 2,628 | 24,240 |
| 1994 | 4,673 | 2,024 | 319 | 172 | 757 | 1,566 | 1,807 | 56 | 56 | 4,687 | 2,838 | 4,664 | 23,619 |
| 1995 | 2,340 | 730 | 178 | 127 | 506 | 280 | 1,245 | 47 | 150 | 3,510 | 3,078 | 3,172 | 15,363 |
| 1996 | 4,766 | 1,077 | 654 | 21 | 2,077 | 384 | 2,828 | 0 | 179 | 6,790 | 3,049 | 2,983 | 24,808 |
| 1997 | 5,198 | 1,415 | 2,177 | 60 | 2,008 | 2,139 | 3,473 | 179 | 60 | 7,040 | 5,355 | 5,638 | 34,742 |
| 1998 | 4,487 | 1,259 | 1,593 | 93 | 4,885 | 333 | 4,138 | 135 | 186 | 4,560 | 2,492 | 2,080 | 26,241 |
| 1999 | 11,965 | 2,484 | 1,016 | 72 | 1,415 | 960 | 5,337 | 140 | 465 | 7,402 | 5,188 | 3,309 | 39,753 |
| 2000 | 8,836 | 1,920 | 2,107 | 145 | 2,173 | 3,175 | 7,236 | 569 | 132 | 6,669 | 3,740 | 5,901 | 42,603 |
| 2001 | 11,510 | 1,414 | 882 | 184 | 763 | 1,103 | 5,678 | 123 | 17 | 5,937 | 2,844 | 2,449 | 32,904 |
| 2002 | 22,650 | 2,821 | 1,402 | 105 | 9,308 | 4,063 | 19,170 | 45 | 66 | 11,312 | 5,164 | 4,084 | 80,190 |
| 2003 | 13,750 | 3,576 | 2,315 | 344 | 5,289 | 1,691 | 12,393 | 54 | 97 | 7,875 | 5,191 | 6,865 | 59,440 |
| 2004 | 10,920 | 2,293 | 698 | 58 | 1,869 | 1,835 | 10,171 | 540 | 351 | 6,384 | 6,961 | 4,050 | 46,130 |
| 2005 | 10,863 | 2,878 | 961 | 11 | 2,218 | 685 | 6,151 | 133 | 183 | 6,772 | 1,759 | 3,574 | 36,188 |
| 2006 | 10,032 | 1,744 | 993 | 46 | 2,716 | 1,121 | 7,610 | 60 | 24 | 7,653 | 4,997 | 1,866 | 38,862 |
| 2007 | 20,905 | 2,800 | 163 | 191 | 4,244 | 506 | 16,740 | 0 | 12 | 8,766 | 9,005 | 745 | 64,077 |
| 2008 | 8,235 | 2,597 | 1,068 | 78 | 1,769 | 746 | 8,014 | 909 | 632 | 7,889 | 3,649 | 1,212 | 36,798 |
| 2009 | 14,700 | 1,707 | 558 | 269 | 1,137 | 237 | 6,474 | 26 | 30 | 6,482 | 4,156 | 1,713 | 37,489 |
| 2010 | 10,689 | 2,260 | 24 | 20 | 5,495 | 1,567 | 6,409 | 0 | 14 | 5,266 | 4,746 | 3,468 | 39,958 |
| 2011 | 19,557 | 1,109 | 729 | 1,242 | 5,709 | 976 | 9,836 | 91 | 53 | 6,769 | 8,125 | 3,523 | 57,719 |
| 2012 | 8,207 | 602 | 326 | 50 | 870 | 1,061 | 8,590 | 210 | 441 | 3,730 | 2,749 | 610 | 27,446 |
| 2007-2011 | | | | | | | | | | | | | |
| Average | 14,817 | 2,095 | 508 | 360 | 3,671 | 806 | 9,495 | 205 | 148 | 7,034 | 5,936 | 2,132 | 47,208 |

^a Talkeetna River and tributaries including Clear Creek.

Table 54.–Northern Cook Inlet Management Area recreational catch and harvest of northern pike by management unit, 1977–2012.

| Year | Northern Cook Inlet Management Area ^a | | | | | | | | | | Soutcentral Region | | Statewide | |
|------|--|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|-------|-----------|-------|
| | Knik Arm ^b | | Eastside Susitna | | Westside Susitna | | West Cook Inlet | | Total | | % | | % | |
| | Catch ^c | Harvest | Catch ^c | Harvest | Catch ^c | Harvest | Catch ^c | Harvest | Catch ^c | Harvest | Harvest | NCIMA | Number | NCIMA |
| 1977 | | 0 | | | | 132 | | 0 | | 132 | 321 | 41.1 | 11,982 | 1.1 |
| 1978 | | 0 | | | | 316 | | 0 | | 316 | 767 | 41.2 | 12,520 | 2.5 |
| 1979 | | 0 | | | | 382 | | 0 | | 382 | 762 | 50.1 | 12,741 | 3.0 |
| 1980 | | 0 | | | | 232 | | 0 | | 232 | 1,358 | 17.1 | 17,000 | 1.4 |
| 1981 | | 0 | | | | 125 | | 0 | | 125 | 1,411 | 8.9 | 16,536 | 0.8 |
| 1982 | | 0 | | | | 607 | | 0 | | 607 | 1,707 | 35.6 | 18,964 | 3.2 |
| 1983 | | 0 | | | | 944 | | 0 | | 944 | 2,642 | 35.7 | 21,476 | 4.4 |
| 1984 | | 0 | | | | 1,821 | | 0 | | 1,821 | 4,424 | 41.2 | 18,641 | 9.8 |
| 1985 | | 156 | | | | 1,248 | | 0 | | 1,404 | 2,240 | 62.7 | 17,943 | 7.8 |
| 1986 | | 458 | | | | 1,519 | | 0 | | 1,977 | 2,894 | 68.3 | 21,890 | 9.0 |
| 1987 | | 924 | | | | 1,540 | | 0 | | 2,464 | 4,839 | 50.9 | 19,079 | 12.9 |
| 1988 | | 364 | | | | 2,818 | | 291 | | 3,473 | 3,598 | 96.5 | 23,440 | 14.8 |
| 1989 | | 863 | | | | 2,257 | | 0 | | 3,120 | 4,434 | 70.4 | 21,659 | 14.4 |
| 1990 | 2,593 | 754 | | | 14,465 | 2,088 | | 0 | 17,058 | 2,842 | 3,655 | 77.8 | 15,985 | 17.8 |
| 1991 | 7,021 | 2,709 | | | 11,193 | 3,931 | | 0 | 18,214 | 6,640 | 8,704 | 76.3 | 29,611 | 22.4 |
| 1992 | 7,097 | 2,605 | | | 13,828 | 2,777 | | 0 | 20,925 | 5,382 | 7,314 | 73.6 | 18,616 | 28.9 |
| 1993 | 10,141 | 2,102 | 0 | 0 | 24,077 | 3,619 | 19 | 0 | 34,237 | 5,721 | 7,131 | 80.2 | 19,366 | 29.5 |
| 1994 | 2,816 | 1,328 | 0 | 0 | 5,436 | 2,556 | 18 | 9 | 8,270 | 3,893 | 5,800 | 67.1 | 25,558 | 15.2 |
| 1995 | 825 | 522 | 0 | 0 | 15,414 | 3,024 | 0 | 0 | 16,239 | 3,546 | 5,323 | 66.6 | 19,006 | 18.7 |
| 1996 | 12,220 | 4,021 | 368 | 11 | 17,657 | 3,902 | 0 | 0 | 30,245 | 7,934 | 10,503 | 75.5 | 23,043 | 34.4 |
| 1997 | 9,137 | 4,858 | 795 | 95 | 16,266 | 4,026 | 75 | 45 | 26,273 | 9,024 | 10,489 | 86.0 | 16,603 | 54.4 |
| 1998 | 10,223 | 4,272 | 130 | 130 | 17,928 | 3,753 | 321 | 25 | 28,602 | 8,180 | 9,595 | 85.3 | 15,617 | 52.4 |
| 1999 | 14,231 | 6,785 | 441 | 260 | 14,348 | 3,686 | 334 | 93 | 29,354 | 10,824 | 13,327 | 81.2 | 19,766 | 54.8 |
| 2000 | 16,717 | 5,698 | 308 | 101 | 27,381 | 3,692 | 234 | 86 | 44,640 | 9,577 | 12,019 | 79.7 | 18,062 | 53.0 |
| 2001 | 15,457 | 6,544 | 776 | 55 | 25,147 | 5,479 | 1,042 | 661 | 42,422 | 12,739 | 16,673 | 76.4 | 23,623 | 53.9 |
| 2002 | 13,079 | 5,716 | 647 | 618 | 18,450 | 5,865 | 284 | 119 | 32,460 | 12,318 | 14,862 | 82.9 | 22,567 | 54.6 |
| 2003 | 14,094 | 4,026 | 11 | 0 | 14,818 | 3,816 | 355 | 182 | 29,278 | 8,024 | 11,282 | 71.1 | 17,388 | 46.1 |
| 2004 | 11,179 | 4,961 | 119 | 91 | 21,878 | 6,626 | 704 | 493 | 33,880 | 12,171 | 17,122 | 71.1 | 28,799 | 42.3 |
| 2005 | 11,347 | 6,160 | 513 | 104 | 25,704 | 4,889 | 330 | 153 | 37,894 | 11,306 | 13,802 | 81.9 | 24,819 | 45.6 |
| 2006 | 14,754 | 6,664 | 312 | 137 | 15,685 | 4,318 | 799 | 285 | 31,550 | 11,404 | 13,261 | 86.0 | 18,184 | 62.7 |
| 2007 | 6,013 | 3,050 | 2,833 | 1,355 | 12,640 | 3,526 | 225 | 225 | 21,711 | 8,156 | 11,062 | 73.7 | 17,174 | 47.5 |
| 2008 | 3,612 | 1,752 | 4,750 | 468 | 15,776 | 5,683 | 229 | 96 | 24,367 | 7,999 | 9,270 | 86.3 | 12,959 | 61.7 |

-continued-

Table 54.–Page 2 of 2.

| Year | Northern Cook Inlet Management Area ^a | | | | | | | | | | Soutcentral Region | | Statewide | |
|----------------------|--|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|-------|-----------|-------|
| | Knik Arm ^b | | Eastside Susitna | | Westside Susitna | | West Cook Inlet | | Total | | % | | % | |
| | Catch ^c | Harvest | Catch ^c | Harvest | Catch ^c | Harvest | Catch ^c | Harvest | Catch ^c | Harvest | Harvest | NCIMA | Number | NCIMA |
| 2009 | 10,213 | 4,647 | 1,318 | 385 | 14,389 | 3,368 | 1,983 | 88 | 27,903 | 8,488 | 12,919 | 65.7 | 18,763 | 45.2 |
| 2010 | 6,031 | 3,372 | 6,935 | 1,033 | 15,826 | 5,283 | 765 | 225 | 29,557 | 9,913 | 11,093 | 89.4 | 16,353 | 60.6 |
| 2011 | 7,930 | 5,963 | 3,508 | 2,138 | 3,787 | 2,969 | 37 | 19 | 15,262 | 11,089 | 11,093 | 100.0 | 16,353 | 67.8 |
| 2012 | 5,742 | 3,231 | 3,959 | 79 | 9,686 | 4,505 | 0 | 0 | 19,387 | 7,815 | 8,580 | 91.1 | 12,999 | 60.1 |
| 1977-2011 Average | 9,397 | 2,608 | 1,251 | 367 | 16,459 | 2,938 | 408 | 88 | 27,288 | 5,833 | 7,648 | 67.2 | 19,202 | 30.1 |
| 2007-2011 Average | 6,760 | 3,757 | 3,869 | 1,076 | 12,484 | 4,166 | 648 | 131 | 23,760 | 9,129 | 11,087 | 83.0 | 16,320 | 56.6 |

^a Prior to 1985, SWHS harvest estimates for northern pike in the Knik Arm drainage area may have been included in the “other” (fish species) category.

^b No reported catch or harvest from Eastside Susitna or West Cook Inlet management units prior to 1993.

Table 55.—Knik Arm drainage northern pike harvest by fishery and total catch, 1985–2012.

| Year | Little Susitna | Knik River ^a | Figure 8 Lake | Cottonwood Creek | Big Lake ^b | Flathorn Lake | Nancy Lake ^c | Other ^d | Harvest Total | Catch Total |
|-------------------|----------------|-------------------------|---------------|------------------|-----------------------|---------------|-------------------------|--------------------|---------------|-------------|
| 1985 | 0 | 0 | 0 | 0 | 0 | 0 | 156 | 0 | 156 | 0 |
| 1986 | 0 | 0 | 0 | 0 | 0 | 0 | 458 | 0 | 458 | 0 |
| 1987 | 0 | 0 | 0 | 0 | 0 | 0 | 924 | 0 | 924 | 0 |
| 1988 | 0 | 0 | 0 | 0 | 0 | 0 | 364 | 0 | 364 | 0 |
| 1989 | 0 | 0 | 0 | 0 | 0 | 0 | 863 | 0 | 863 | 0 |
| 1990 | 0 | 0 | 0 | 0 | 0 | 0 | 754 | 0 | 754 | 2,593 |
| 1991 | 0 | 0 | 0 | 0 | 0 | 227 | 2,406 | 76 | 2,709 | 7,021 |
| 1992 | 0 | 0 | 0 | 0 | 0 | 427 | 2,101 | 77 | 2,605 | 7,097 |
| 1993 | 0 | 0 | 0 | 0 | 0 | 479 | 1,438 | 185 | 2,102 | 10,141 |
| 1994 | 0 | 0 | 0 | 0 | 0 | 539 | 789 | 0 | 1,328 | 2,816 |
| 1995 | 29 | 0 | 0 | 0 | 0 | 471 | 0 | 22 | 522 | 825 |
| 1996 | 0 | 0 | 0 | 0 | 13 | 1,689 | 1,943 | 376 | 4,021 | 12,220 |
| 1997 | 0 | 0 | 1,354 | 0 | 0 | 2,007 | 1,340 | 157 | 4,858 | 9,137 |
| 1998 | 42 | 0 | 766 | 0 | 270 | 910 | 2,023 | 261 | 4,272 | 10,223 |
| 1999 | 0 | 0 | 0 | 0 | 226 | 602 | 3,888 | 2,069 | 6,785 | 14,231 |
| 2000 | 21 | 0 | 992 | 0 | 601 | 1,402 | 2,475 | 207 | 5,698 | 16,717 |
| 2001 | 52 | 0 | 1369 | 0 | 110 | 1,081 | 2,824 | 1108 | 6,544 | 15,457 |
| 2002 | 76 | 0 | 1258 | 0 | 0 | 2,139 | 1,773 | 470 | 5,716 | 13,079 |
| 2003 | 0 | 0 | 820 | 0 | 24 | 1,246 | 1,543 | 393 | 4,026 | 14,094 |
| 2004 | 30 | 0 | 2,726 | 0 | 0 | 1,665 | 1,918 | 287 | 6,626 | 11,179 |
| 2005 | 0 | 0 | 1,889 | 0 | 12 | 1,843 | 1,448 | 968 | 6,160 | 11,347 |
| 2006 | 0 | 0 | 2,418 | 0 | 71 | 1,825 | 2,203 | 147 | 6,664 | 14,754 |
| 2007 | 0 | 0 | 825 | 0 | 236 | 1,280 | 1,749 | 240 | 4,330 | 8,658 |
| 2008 | 0 | 0 | 466 | 0 | 98 | 444 | 1,083 | 105 | 2,196 | 8,011 |
| 2009 | 88 | 0 | 547 | 27 | 923 | 245 | 2,621 | 441 | 4,647 | 10,827 |
| 2010 | 0 | 0 | 357 | 0 | 215 | 945 | 2,379 | 421 | 4317 | 6,031 |
| 2011 | 0 | 0 | 2,092 | 0 | 297 | 909 | 712 | 4,954 | 8,964 | 17,928 |
| 2012 | 0 | 0 | 1,002 | 0 | 20 | 563 | 1,551 | 95 | 3,231 | 6,462 |
| 2007-2011 Average | 18 | 0 | 857 | 5 | 354 | 765 | 1,709 | 1,232 | 4,891 | 10,291 |

Note: Northern pike grouped with other fish prior to 1985.

^a Knik River and tributaries including Jim Creek.

^b Big Lake and drainage streams.

^c Nancy Lake complex lakes.

^d Includes lakes and streams.

Table 56.—Westside Susitna River drainage northern pike harvest by fishery, 1977–2012.

| Year | Alexander Creek ^a | Deshka River | Peters Creek | Lake Creek | Fish Creek ^b | Trapper Lake | Other Streams ^c | Other Lakes ^c | Total |
|------|---------------------------------|-----------------|-----------------|---------------|----------------------------|-----------------|-------------------------------|-----------------------------|-------|
| 1977 | 0 | 0 | | 42 | | | 0 | 90 | 132 |
| 1978 | 0 | 0 | | 9 | | | 0 | 307 | 316 |
| 1979 | 0 | 0 | | 209 | | | 0 | 173 | 382 |
| 1980 | 0 | 0 | | 103 | | | 0 | 129 | 232 |
| 1981 | 0 | 0 | | 0 | | | 0 | 125 | 125 |
| 1982 | 0 | 0 | | 52 | | | 0 | 555 | 607 |
| 1983 | 0 | 0 | | 52 | | | 105 | 787 | 944 |
| 1984 | 0 | 0 | 0 | 50 | | | 1,136 | 635 | 1,821 |
| 1985 | 17 | 0 | | 52 | | | 156 | 1,023 | 1,248 |
| 1986 | 514 | 0 | | 0 | 491 | | 45 | 469 | 1,519 |
| 1987 | 254 | 0 | | 0 | 326 | | 0 | 960 | 1,540 |
| 1988 | 800 | 0 | 0 | 36 | 1,455 | | 346 | 181 | 2,818 |
| 1989 | 819 | 0 | 0 | 0 | 676 | | 381 | 381 | 2,257 |
| 1990 | 404 | 0 | 0 | 320 | 370 | | 152 | 842 | 2,088 |
| 1991 | 700 | 0 | 0 | 104 | 921 | 506 | 13 | 1,687 | 3,931 |
| 1992 | 641 | 0 | 0 | 85 | 359 | 410 | 146 | 1,136 | 2,777 |
| 1993 | 1,202 | 0 | 0 | 0 | 1,080 | 694 | 634 | 9 | 3,619 |
| 1994 | 1,093 | 78 | 0 | 82 | 411 | 558 | 298 | 36 | 2,556 |
| 1995 | 1,067 | 0 | 0 | 125 | 257 | 862 | 422 | 291 | 3,024 |
| 1996 | 813 | 161 | 0 | 80 | 328 | 1,602 | 918 | | 3,902 |
| 1997 | 1,607 | 137 | 0 | 29 | 345 | 986 | 922 | | 4,026 |
| 1998 | 1,869 | 18 | 0 | 95 | 224 | 876 | 671 | | 3,753 |
| 1999 | 806 | 283 | 0 | 16 | 375 | 499 | | 1,707 | 3,686 |
| 2000 | 1,037 | 462 | 0 | 127 | 328 | | 1,738 | | 3,692 |
| 2001 | 2,404 | 400 | 0 | 673 | 784 | 388 | 830 | | 5,479 |
| 2002 | 2,014 | 226 | 0 | 76 | 461 | 163 | 2,054 | 871 | 5,865 |
| 2003 | 885 | 143 | 0 | 198 | 792 | 255 | 1,190 | 352 | 3,815 |
| 2004 | 1,707 | 336 | 0 | 25 | 329 | 202 | 2,147 | 448 | 5,194 |
| 2005 | 925 | 240 | 0 | 124 | 532 | 1,659 | 1,209 | 200 | 4,889 |
| 2006 | 588 | 505 | 0 | 344 | 300 | 923 | 1,251 | 407 | 4,318 |
| 2007 | 677 | 277 | 0 | 0 | 964 | 1,138 | 145 | 325 | 3,526 |
| 2008 | 173 | 168 | 0 | 199 | 177 | 4,460 | 377 | 129 | 5,683 |

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Table 56.–Page 2 of 2.

| Year | Alexander Creek ^a | Deshka River | Peters Creek | Lake Creek | Fish Creek ^b | Trapper Lake | Other Streams ^c | Other Lakes ^c | Total |
|----------------------|---------------------------------|-----------------|-----------------|---------------|----------------------------|-----------------|-------------------------------|-----------------------------|--------|
| 2009 | 1,406 | 455 | 0 | 30 | 229 | 791 | 95 | 1,109 | 4,115 |
| 2010 | 655 | 240 | 0 | 20 | 387 | 880 | 631 | 2,470 | 5,283 |
| 2011 | 3,494 | 258 | 0 | 94 | 192 | 377 | 2,721 | 4,287 | 11,423 |
| 2012 | 10 | 64 | 0 | 82 | 935 | 753 | 767 | 1,894 | 4,505 |
| 2007-2011 Average | 1,281 | 280 | 0 | 69 | 390 | 1,529 | 794 | 1,664 | 6,006 |

^a Alexander creek drainage (Alexander Lake, Sucker Lake).

^b Fish Lake drainage (Yentna River drainage).

^c May include harvest from West Cook Inlet waters through 1998.

Table 57.—Number of fish stocked in Northern Cook Inlet Management Area waters, 2010–2012.

| Species/Life Stage/Site | 2010 ^a (Actual) | 2011 ^{ab} (Actual) | 2012 ^a (Actual) | FTP # | Expiration Date |
|---|-------------------------------|--------------------------------|-------------------------------|-----------|--------------------|
| <u>Chinook Salmon Anadromous Smolt</u> | | | | | |
| Eklutna Tailrace (Knik River) | 152,014 | 122,962 | 160,347 | 12A-0006 | 12/31/2017 |
| Deception Creek | 155,125 | 140,266 | 151,220 | 12A-0001 | 12/31/2019 |
| Total | 307,139 | 263,228 | 311,567 | | |
| <u>Coho Salmon Anadromous Smolt</u> | | | | | |
| Eklutna Tailrace (Knik River) | 131,123 | 97,087 | 40,921 | 12A-0014 | 12/31/2017 |
| <u>Coho Salmon Landlocked Fingerlings</u> | | | | | |
| Barley Lake | 2,903 | 0 | 2,077 | 12A-0008 | 12/31/2017 |
| Bear Paw Lake | 5,440 | 3,600 | 4,500 | 12A-0008 | 12/31/2017 |
| Carpenter Lake | 40,700 | 8,377 | 38,428 | 12A-0008 | 12/31/2017 |
| Christiansen Lake | 18,907 | 12,160 | 31,376 | 12A-0008 | 12/31/2017 |
| Diamond Lake | 29,756 | 8,800 | 14,192 | 12A-0008 | 12/31/2017 |
| Echo Lake | 2,300 | 2,640 | 2,300 | 12A-0008 | 12/31/2017 |
| Johnson Lake | 1,000 | 0 | 1,000 | 12A-0008 | 12/31/2017 |
| Kalmbach Lake | 11,000 | 8,800 | 25,724 | 12A-0008 | 12/31/2017 |
| Klaire Lake | 900 | 720 | 934 | 12A-0008 | 12/31/2017 |
| Loberg (Junction) Lake | 0 | 0 | 1,100 | 12A-0008 | 12/31/2017 |
| Lucille Lake | 19,627 | 6,400 | 8,000 | 12A-0011 | 12/31/2017 |
| Victor Lake | 2,700 | 2,160 | 2,752 | 12A-0008 | 12/31/2017 |
| Willow Lake | 3,000 | 2,400 | 3,000 | 12-A-0010 | 12/31/2017 |
| Total | 138,233 | 56,057 | 135,383 | | |
| <u>Chinook Salmon Landlocked Catchables</u> | | | | | |
| Finger Lake | 0 | 0 | 30,863 | 12A-0005 | 12/31/2017 |
| Knik Lake | 0 | 0 | 3,486 | 12A-0005 | 12/31/2017 |
| Matanuska Lake | 0 | 0 | 2,974 | 12A-0005 | 12/31/2017 |
| Memory Lake | 0 | 0 | 2,167 | 12A-0005 | 12/31/2017 |
| Total | 0 | 0 | 39,490 | | |

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Table 57.–Page 2 of 6.

| Species/Life Stage/Site | 2010 ^a (Actual) | 2011 ^{ab} (Actual) | 2012 ^a (Actual) | FTP # | Expiration Date |
|---|-------------------------------|--------------------------------|-------------------------------|----------|--------------------|
| <u>Chinook Salmon Landlocked Fingerling</u> | | | | | |
| Finger Lake | 114,148 | 0 | 0 | 05A-0060 | 12/31/2014 |
| Knik Lake | 27,098 | 0 | 0 | 05A-0060 | 12/31/2014 |
| Matanuska | 67,160 | 0 | 0 | 05A-0060 | 12/31/2014 |
| Memory Lake | 0 | 0 | 0 | 05A-0060 | 12/31/2014 |
| Total | 208,406 | 0 | 0 | | |
| <u>Rainbow Trout Landlocked Catchables</u> | | | | | |
| Bruce Lake | 2,086 | 0 | 992 | 11A-0020 | 12/31/2015 |
| Canoe Lake | 4,100 | 0 | 2,007 | 11A-0020 | 12/31/2015 |
| Coyote | 0 | 0 | 300 | 11A-0021 | 12/31/2015 |
| Echo Lake | 3,211 | 0 | 1,550 | 11A-0020 | 12/31/2015 |
| Irene Lake | 3,700 | 0 | 1,205 | 11A-0020 | 12/31/2015 |
| Gate Lake | 0 | 0 | 973 | 11A-0021 | 12/31/2015 |
| Kashwitna | 0 | 0 | 3,700 | 11A-0021 | 12/31/2015 |
| Kepler/Bradley Lake | 8,848 | 1,734 | 4,989 | 11A-0020 | 12/31/2015 |
| Knik Lake | 4,295 | 525 | 5,672 | 11A-0020 | 12/31/2015 |
| Knob Lake | 0 | 0 | 2,912 | 11A-0020 | 12/31/2015 |
| Loberg (Junction) Lake | 2,200 | 0 | 990 | 11A-0020 | 12/31/2015 |
| Long Lake (Mile 86 Glenn Hwy.) | 7,494 | 0 | 3,539 | 11A-0020 | 12/31/2015 |
| Lucille Lake | 0 | 0 | 6,413 | 11A-0023 | 12/31/2015 |
| Matanuska Lake | 10,010 | 0 | 5,937 | 11A-0020 | 12/31/2015 |
| Meirs Lake | 2,600 | 0 | 1,212 | 11A-0020 | 12/31/2015 |
| Memory Lake | 5,154 | 0 | 2,681 | 11A-0020 | 12/31/2015 |
| Mile 180 Lake | 0 | 0 | 2,822 | 11A-0021 | 12/31/2015 |
| North Knob Lake | 0 | 0 | 685 | 11A-0020 | 12/31/2015 |
| Ravine Lake | 4,320 | 0 | 3,468 | 11A-0020 | 12/31/2015 |
| Reflections Lake | 0 | 0 | 600 | 11A-0020 | 12/31/2015 |
| Rocky Lake | 2,209 | 0 | 1,385 | 11A-0020 | 12/31/2015 |
| Slipper (Eska) Lake | 0 | 0 | 1,670 | 11A-0021 | 12/31/2015 |
| South Rolly Lake | 0 | 0 | 5,315 | 11A-0023 | 12/31/2015 |
| Tanaina Lake | 0 | 0 | 2,502 | 11A-0023 | 12/31/2015 |
| Walby Lake | 0 | 0 | 1,500 | 11A-0021 | 12/31/2015 |
| Weiner Lake | 0 | 0 | 1,987 | 11A-0021 | 12/31/2015 |
| Willow Lake | 0 | 0 | 2,381 | 11A-0021 | 12/31/2015 |
| Total | 60,227 | 2,259 | 69,387 | | |

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Table 57.–Page 3 of 6.

| Species/Life Stage/Site | 2010 ^a (Actual) | 2011 ^{ab} (Actual) | 2012 ^a (Actual) | FTP # | Expiration Date |
|---|-------------------------------|--------------------------------|-------------------------------|----------|--------------------|
| <u>Rainbow Trout Landlocked Fingerlings</u> | | | | | |
| Barley Lake | 1,700 | 0 | 4,250 | 11A-0023 | 12/31/2015 |
| Bear Paw Lake | 6,165 | 2,280 | 5,000 | 11A-0023 | 12/31/2015 |
| Bench Lake | 0 | 1700 | 0 | 11A-0023 | 12/31/2015 |
| Benka | 6,066 | 7,493 | 0 | 11A-0023 | 12/31/2015 |
| Beverly Lake | 4,200 | 4,200 | 5,200 | 11A-0024 | 12/31/2015 |
| Big Beaver Lake | 16,100 | 16,236 | 16,100 | 11A-0024 | 12/31/2015 |
| Boot Lake | 2,933 | 0 | 0 | 11A-0024 | 12/31/2015 |
| Brockler lake | 2,250 | 2,100 | 4,250 | 11A-0024 | 12/31/2015 |
| Carpenter Lake | 22,371 | 21,653 | 16,660 | 11A-0023 | 12/31/2015 |
| Caswell #3 Lake | 3,000 | 3,000 | 4,250 | 11A-0025 | 12/31/2015 |
| Christiansen Lake | 11,435 | 18,257 | 9,860 | 11A-0023 | 12/31/2015 |
| Crooked Lake | 10,900 | 10,378 | 0 | 11A-0024 | 12/31/2015 |
| Crystal Lake | 17,300 | 18,115 | 17,300 | 11A-0025 | 12/31/2015 |
| Dawn Lake | 2,400 | 2,526 | 3,000 | 11A-0025 | 12/31/2015 |
| Diamond Lake | 13,500 | 13,905 | 15,000 | 11A0023 | 12/31/2015 |
| Echo Lake | 0 | 5,200 | 0 | N/A | 12/31/2015 |
| Farmer Lake | 1,000 | 1,100 | 935 | 11A-0023 | 12/31/2015 |
| Finger Lake | 58,982 | 33,408 | 55,315 | 11A-0023 | 12/31/2015 |
| Florence Lake | 5,500 | 5,700 | 5,499 | 11A-0023 | 12/31/2015 |
| Gate Lake | 1,000 | 0 | 0 | N/A | 12/31/2015 |
| Golden Lake | 1,485 | 1,500 | 3,000 | 11A-0023 | 12/31/2015 |
| Goober Lake | 0 | 0 | 0 | 11A-0023 | 12/31/2015 |
| Homestead Lake | 1,700 | 1,832 | 3,200 | 11A-0025 | 12/31/2015 |
| Honeybee Lake | 7,714 | 6,813 | 6,800 | 11A-0023 | 12/31/2015 |
| Ida Lake | 5,400 | 5,100 | 4,600 | 11A-0023 | 12/31/2015 |
| Johnson | 0 | 0 | 0 | 11A-0023 | 12/31/2015 |
| Kalmbach Lake | 12,150 | 12,500 | 12,500 | 11A-0023 | 12/31/2015 |
| Kepler/Bradley Lake | 8,848 | 2,673 | 0 | N/A | 12/31/2015 |
| Knob Lake | 2,500 | 2,500 | 0 | 11A-0023 | 12/31/2015 |
| Lalen Lake | 9,200 | 9,200 | 18,093 | 11A-0024 | 12/31/2015 |
| Little Beaver Lake | 4,400 | 4,442 | 5,400 | 11A-0024 | 12/31/2015 |
| Little Lonely Lake | 8,433 | 8,703 | 8,400 | 11A-0023 | 12/31/2015 |

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Table 57.–Page 4 of 6.

| Species/Life Stage/Site | 2010 ^a (Actual) | 2011 ^{ab} (Actual) | 2012 ^a (Actual) | FTP # | Expiration Date |
|-------------------------|-------------------------------|--------------------------------|-------------------------------|----------|--------------------|
| Loberg (Junction) Lake | 0 | 2970 | 0 | N/A | 12/31/2015 |
| Long Lake (K/B) | 5,400 | 7,000 | 5,400 | 11A-0023 | 12/31/2015 |
| Long Mile 86 | 40,000 | 9,051 | 0 | 11A-0023 | 12/31/2015 |
| Loon Lake | 14,300 | 14,300 | 16,000 | 11A-0025 | 12/31/2015 |
| Lorraine Lake | 13,500 | 12,760 | 11,220 | 11A-0023 | 12/31/2015 |
| Lucille Lake | 2,500 | 2,500 | 0 | 11A-0023 | 12/31/2015 |
| Lynne Lake | 10,028 | 11,032 | 8,000 | 11A-0023 | 12/31/2015 |
| Marion Lake | 11,250 | 11,380 | 11,300 | 11A-0023 | 12/31/2015 |
| Meirs Lake | 2,000 | 0 | 0 | 11A-0023 | 12/31/2015 |
| Morvro Lake | 4,500 | 0 | 4,096 | 11A-0025 | 12/31/2015 |
| North Friend Lake | 8,100 | 7,867 | 7,225 | 11A-0024 | 12/31/2015 |
| North Rolly Lake | 5,900 | 12,200 | 6,500 | 11A-0024 | 12/31/2015 |
| Peggy Lake | 4,800 | 0 | 4,080 | 11A-0023 | 12/31/2015 |
| Reed Lake | 2,000 | 2,000 | 3,000 | 11A-0023 | 12/31/2015 |
| Rhein Lake | 9,400 | 10,200 | 11,100 | 11A-0024 | 12/31/2015 |
| Ruby Lake | 2,400 | 0 | 0 | 11A-0024 | 12/31/2015 |
| Seventeenmile Lake | 31,571 | 10,000 | 13,000 | 11A-0023 | 12/31/2015 |
| Seymour Lake | 22,300 | 22,300 | | 11A-0025 | 12/31/2015 |
| Slipper (Eska) Lake | 2,500 | 2,500 | 0 | 11A-0023 | 12/31/2015 |
| South Friend Lake | 5,600 | 5,645 | 6,800 | 11A-0024 | 12/31/2015 |
| Threemile Lake | 3,000 | 0 | 0 | 11A-0024 | 12/31/2015 |
| Tigger Lake | 2,566 | 2,570 | 3,400 | 11A-0023 | 12/31/2015 |
| Twin Island Lake | 15,100 | 14,596 | 6,800 | 11A-0024 | 12/31/2015 |
| Vera Lake | 11,100 | 10,900 | 11,100 | 11A-0024 | 12/31/2015 |
| Visnaw Lake | 13,100 | 13,100 | 13,100 | 11A-0024 | 12/31/2015 |
| Walby Lake | 2,500 | 2,475 | 1,500 | 11A-0023 | 12/31/2015 |
| Weiner Lake | 2,500 | 2,500 | 0 | 11A-0024 | 12/31/2015 |
| West Beaver | 8,250 | 8,260 | 8,250 | 11A-0024 | 12/31/2015 |
| West Sunshine Lake | 4,500 | 4,500 | 3,825 | 11A-0024 | 12/31/2015 |
| Wishbone Lake | 0 | 2600 | 0 | 11A-0024 | 12/31/2015 |
| Wolf Lake | 0 | 9,207 | 10,000 | 11A-0025 | 12/31/2015 |
| "X" Lake | 5,100 | 0 | 5,100 | 11A-0023 | 12/31/2015 |
| "Y" Lake | 3,966 | 4,000 | 4,250 | 11A-0023 | 12/31/2015 |
| Total | 518,363 | 440,927 | 399,658 | | |

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Table 57.–Page 5 of 6.

| Species/Life Stage/Site | 2010 ^a (Actual) | 2011 ^{ab} (Actual) | 2012 ^a (Actual) | FTP # | Expiration Date |
|--|-------------------------------|--------------------------------|-------------------------------|-----------|--------------------|
| <u>Arctic Grayling Landlocked Fingerling</u> | | | | | |
| Canoe Lake | 4,000 | 9,000 | 0 | 12A-0055 | 12/31/2012 |
| Finger Lake | 8,000 | 18,000 | 0 | 12A-0055 | 12/31/2012 |
| Florence Lake | 1,000 | 2,250 | 0 | 12A-0055 | 12/31/2012 |
| Ida Lake | 3,703 | 8,325 | 0 | 12A-0055 | 12/31/2012 |
| Kepler/Bradley Lake | 3,000 | 6,750 | 0 | 12A-0055 | 12/31/2012 |
| Knik Lake | 2,775 | 0 | 0 | 12A-0055 | 12/31/2012 |
| Lorraine Lake | 5,100 | 0 | 0 | 12A-0055 | 12/31/2012 |
| Meirs Lake | 5,000 | 9,000 | 0 | 12A-0055 | 12/31/2012 |
| Reed Lake | 1,000 | 2,250 | 0 | 12A-0055 | 12/31/2012 |
| Total | 33,578 | 55,575 | 0 | | |
| <u>Arctic Char Landlocked Catchables</u> | | | | | |
| Benka Lake | 0 | 1,000 | 0 | 010A-0110 | 12/31/2014 |
| Carpenter Lake | 1,869 | 0 | 1,448 | 010A-0110 | 12/31/2014 |
| Echo Lake | 1,706 | 0 | 554 | 010A-0110 | 12/31/2014 |
| Finger Lake | 0 | 2,631 | 0 | 010A-0110 | 12/31/2014 |
| Irene Lake | 0 | 776 | 0 | 010A-0110 | 12/31/2014 |
| Johnson Lake | 300 | 0 | 305 | 010A-0110 | 12/31/2014 |
| Long Lake (Mile 86 Glenn Hwy.) | 3,637 | 164 | 2,578 | 010A-0110 | 12/31/2014 |
| Lynne Lake | 800 | 0 | 859 | 010A-0110 | 12/31/2014 |
| Marion Lake | 0 | 910 | 0 | 010A-0110 | 12/31/2014 |
| Matanuska Lake | 0 | 1,631 | 437 | 010A-0110 | 12/31/2014 |
| Memory Lake | 400 | 0 | 440 | 010A-0110 | 12/31/2014 |
| Prator Lake | 500 | 0 | 0 | 010A-0110 | 12/31/2014 |
| Rush Lake | 0 | 0 | 300 | | |
| Seventeenmile Lake | 0 | 951 | 0 | 010A-0110 | 12/31/2014 |
| Total | 9,212 | 8,063 | 6,921 | | |

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Table 57.–Page 6 of 6.

| Species/Life Stage/Site | 2010 ^a (Actual) | 2011 ^{ab} (Actual) | 2012 ^a (Actual) | FTP # | Expiration Date |
|--------------------------------|-------------------------------|--------------------------------|-------------------------------|----------|--------------------|
| <u>Arctic Char Landlocked</u> | | | | | |
| <u>Fingerlings</u> | | | | | |
| Carpenter Lake | 3,754 | 0 | 0 | 10A-0010 | 12/31/2014 |
| Finger Lake | 0 | 5902 | 10,783 | 10A-0010 | 12/31/2014 |
| | | | | 10A-0010 | 12/31/2014 |
| Irene Lake | 0 | 0 | 0 | 10A-0010 | 12/31/2014 |
| Johnson Lake | 0 | 0 | 0 | 10A-0010 | 12/31/2014 |
| Long Lake (Mile 86 Glenn Hwy.) | 38,902 | 34,737 | 0 | 10A-0010 | 12/31/2014 |
| | | | 0 | 10A-0010 | 12/31/2014 |
| Lynne Lake | 0 | 0 | 0 | 10A-0010 | 12/31/2014 |
| Matanuska Lake | 0 | 3,068 | 10,032 | 10A-0010 | 12/31/2014 |
| Seventeenmile Lake | 0 | 0 | 0 | 10A-0010 | 12/31/2014 |
| Total | 42,656 | 43,707 | 20,815 | | |
| <hr/> | | | | | |
| Total Anadromous Stockings | 438,262 | 491,438 | 352,488 | | |
| <hr/> | | | | | |
| Total Landlocked Stockings | 1,010,675 | 606,588 | 671,654 | | |
| <hr/> | | | | | |
| Total Stockings | 2,459,612 | 1,098,026 | 1,024,142 | | |

^a Size of catchables decreased to sub-catchbale size due to loss of hot water at hatchery.

^b Catchable king salmon and rainbow trout are not available because of Elmendorf hatchery closure 2011.

Table 58.—Sport fish catch and harvest from stocked lakes in Northern Cook Inlet Management Area, 2012.

| SWHS 53 fishing sites | Days fished ^a | % of effort | Landlocked salmon | | | Arctic char | | | Rainbow trout | | | Arctic grayling | | | Northern pike | | | Total | | |
|-------------------------------|-----------------------------|----------------|-------------------|---------|---------|-------------|---------|---------|---------------|---------|---------|-----------------|---------|---------|---------------|---------|---------|-------|---------|---------|
| | | | Catch | Harvest | harvest | Catch | Harvest | harvest | Catch | Harvest | harvest | Catch | Harvest | harvest | Catch | Harvest | harvest | Catch | Harvest | harvest |
| Bear Paw | 292 | 0.0% | 103 | 103 | | | | | | | | | | | | | 103 | 103 | 100% | |
| Benka | 194 | 0.7% | | | | | | | | | | | | | | | 0 | 0 | 0% | |
| Beverley | 153 | 0.7% | | | | | | 514 | 171 | 100% | | | | | | | 514 | 171 | 33% | |
| Big Beaver | 103 | 0.4% | 0 | 0 | 0% | | | | | 0% | | | | | | | 0 | 0 | 0% | |
| Bradley (Kepler Lk complex) | 105 | 0.4% | | | | | | 51 | 0 | 0% | | | | | | | 51 | 0 | 0% | |
| Bruce | 153 | 0.7% | | | | | | 685 | 257 | 38% | | | | | | | 685 | 257 | 38% | |
| Canoe (Kepler Lk complex) | 335 | 1.4% | | | | | | 1,054 | 101 | 10% | 0 | 0 | 0% | | | | 1,054 | 101 | 10% | |
| Carpenter | 263 | 1.1% | 105 | 105 | 0% | | | 372 | 266 | 72% | | | | | | | 477 | 371 | 78% | |
| Christiansen | 332 | 1.4% | 469 | 102 | 22% | | | 572 | 162 | 28% | | | | | | | 1,041 | 264 | 25% | |
| Crooked | 1,843 | 7.9% | | | | | | 375 | 58 | 15% | | | | | | | 375 | 58 | 15% | |
| Crystal (near Willow) | 143 | 0.6% | | | | | | 11 | 0 | 0% | | | | | | | 11 | 0 | 0% | |
| Diamond | 144 | 0.6% | | | | | | 150 | 84 | 0% | | | | | | | 150 | 84 | 0% | |
| Echo (Kepler Lk complex) | 212 | 0.9% | | | | 0 | 0 | 0% | 367 | 205 | 56% | | | | | | 367 | 205 | 56% | |
| Eska (Slipper) | 13 | 0.1% | | | | | | 27 | 0 | 0% | | | | | | | 27 | 0 | 0% | |
| Farmer | 1,303 | 5.6% | | | | | | 754 | 343 | 45% | | | | | | | 754 | 343 | 45% | |
| Finger | 2,439 | 10.4% | 1,754 | 1,119 | 64% | 119 | 110 | 92% | 3,611 | 821 | 23% | 0 | 0 | 0% | 16 | 16 | 0% | 5,500 | 2,066 | 38% |
| Florence | 110 | 0.5% | | | | | | 188 | 17 | 0% | | | | | | | 188 | 17 | 9% | |
| Irene (Kepler Lk complex) | 1,847 | 7.9% | | | | 0 | 0 | 0% | 501 | 201 | 0% | | | | | | 501 | 201 | 40% | |
| Kalmbach (also Baptist Lk) | 961 | 4.1% | 1,103 | 848 | 77% | | | 803 | 488 | 61% | | | | | | | 1,906 | 1,336 | 70% | |
| Kepler | 541 | 2.3% | | | | | | 494 | 153 | 31% | 0 | 0 | 0% | | | | 494 | 153 | 31% | |
| Knik | 51 | 0.2% | 0 | 0 | 0% | | | 0 | 0 | 0% | 0 | 0 | 0% | 0 | 0 | 0% | 0 | 0 | 0% | |
| Knob | 176 | 0.8% | | | | | | 134 | 100 | 0% | | | 0% | | | | 134 | 100 | 0% | |
| Little Beaver | 26 | 0.1% | | | | | | 50 | 0 | 0% | | | | | | | 50 | 0 | 0% | |
| Loberg (Junction) | 304 | 1.3% | 158 | 126 | 0% | | | 252 | 63 | 0% | | | | | | | 410 | 189 | 0% | |
| Long (Kepler Lk complex) | 424 | 1.8% | | | | | | 1,769 | 0 | 0% | | | | | | | 1,769 | 0 | 0% | |
| Long (Mile 85 Glenn Hwy) | 872 | 1.6% | | | | 748 | 80 | 11% | 706 | 0 | 0% | 0 | 0 | 0% | | | 1,454 | 80 | 6% | |
| Loon | | 1.6% | 103 | 103 | 100% | | | 17 | 0 | 0% | | | | | | | 120 | 103 | 86% | |
| Lorraine | 636 | 2.7% | | | | | | 2,491 | 686 | 28% | 50 | 0 | 0% | | | | 2,541 | 686 | 27% | |
| Lucille | 2,504 | 10.7% | 0 | 0 | 0% | | | 576 | 175 | 30% | | | | | | | 576 | 175 | 30% | |
| Lynne | 62 | 0.3% | | | | 0 | 0 | 0% | 67 | 67 | 100% | | | | | | 67 | 67 | 100% | |
| Marion | 0 | 0.0% | | | | 0 | 0 | 0% | 0 | 0 | 0% | | | | | | 0 | 0 | 0% | |
| Matanuska (Kepler Lk complex) | 709 | 3.0% | 502 | 147 | 0% | 198 | 77 | 39% | 1,049 | 229 | 22% | | | | | | 1,749 | 453 | 26% | |
| Meirs (in Palmer) | 272 | 1.2% | | | | | | 753 | 33 | 0% | 403 | 47 | 0% | | | | 1,156 | 80 | 7% | |
| Memory | 168 | 0.7% | 0 | 0 | 0% | 0 | 0 | 0% | 0 | 0 | 0% | | | 0 | 0 | | 0 | 0 | 0% | |

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Table 58.—Page 2 of 2.

| SWHS 53 fishing sites | Days fished ^a | % of effort | Landlocked salmon | | | Arctic char | | | Rainbow trout | | | Arctic grayling | | | Northern pike | | | Total | | |
|-----------------------------------|-----------------------------|----------------|-------------------|--------------|------------|--------------|------------|------------|---------------|--------------|------------|-----------------|-----------|-----------|---------------|-----------|------------|---------------|--------------|------------|
| | | | Catch | Harvest | harvest | Catch | Harvest | harvest | Catch | Harvest | harvest | Catch | Harvest | harvest | Catch | Harvest | harvest | Catch | Harvest | harvest |
| Prator | 121 | 0.5% | | | | | | | | | | | | 79 | 79 | 100% | 79 | 79 | 100% | |
| Ravine | 390 | 1.7% | | | | | | 1,438 | 243 | 17% | | | | | | | 1,438 | 243 | 17% | |
| Reflections | 335 | 1.4% | | | | | | 17 | 0 | 0% | | | | | | | 17 | 0 | 0% | |
| Rocky | 180 | 0.8% | | | | | | 188 | 0 | 0% | | | 0 | 0 | 0% | | 188 | 0 | 0% | |
| Ruby | 66 | 0.3% | | | | | | 42 | 42 | 100% | | | | | | | 42 | 42 | 100% | |
| Rush | 0 | 0.0% | | | | | | 0 | 0 | 0% | | | | | | | 0 | 0 | 0% | |
| Seventeenmile | 292 | 1.2% | | | | 32 | 32 | 0% | 234 | 33 | 14% | 0 | 0 | 0% | | | 266 | 65 | 24% | |
| Seymour (was Herring Lk) | 1,187 | 5.1% | | | | | | 538 | 182 | 34% | | | | | | | 538 | 182 | 34% | |
| South Rolly (Nancy Lk Rec system) | 489 | 2.1% | | | | | | 33 | 0 | 0% | | | 158 | 0 | 0% | | 191 | 0 | 0% | |
| Tigger (Talkeetna Lks) | 219 | 0.9% | | | | | | 67 | 50 | 75% | | | | | | | 67 | 50 | 75% | |
| Vera | 630 | 2.7% | | | | | | 171 | 0 | 0% | | | | | | | 171 | 0 | 0% | |
| Victor | 103 | 0.4% | 669 | 284 | 36% | | | | | | | | | | | | 669 | 284 | 42% | |
| Visnaw | 636 | 2.7% | | | | | | 167 | 33 | 20% | | | | | | | 167 | 33 | 20% | |
| Walby | 123 | 0.5% | | | | | | 84 | 0 | 0% | | | | | | | 84 | 0 | 0% | |
| Weiner | 391 | 1.7% | | | | | | 518 | 0 | 0% | 112 | 0 | 0% | | | | 630 | 0 | 0% | |
| Wishbone | 41 | 0.2% | | | | | | 0 | 0 | 0% | | | | | | | 0 | 0 | 0% | |
| Wolf | 302 | 1.3% | | | | | | 226 | 0 | 0% | | | | | | | 226 | 0 | 0% | |
| X & Y (Talkeetna Lks) | 29 | 0.1% | | | | | | 21 | 0 | 0% | | | | | | | 21 | 0 | 0% | |
| Total | 23,363 | 100% | 4,863 | 2,834 | 58% | 1,097 | 299 | 27% | 22,232 | 5,280 | 24% | 565 | 47 | 8% | 253 | 95 | 38% | 29,010 | 8,555 | 29% |

Note: Catch = fish harvested plus fish released; Harvest = fish kept; Catch and harvest estimates from Statewide Harvest Survey (SWHS; Alaska Department of Fish and Game, Division of Sport Fish, Research and Technical Services, Anchorage, published database of survey estimates, accessed 10/7/2012. Project leader Gretchen Jennings).

^a Days fished are not species-specific, but rather days fished for all species combined (including species not listed on this table).

Table 59.-Northern Cook Inlet Management Area lake stocking summary for nonanadromous fish, 2012.

| LAKE STOCKED | SURFACE ACRES | DATE STOCKED | NUMBER STOCKED | BROODSTOCK (TREATMENT) ^a | 2N/3N | HATCHERY | STOCKING SIZE in. | STOCKING METHOD ^b |
|----------------|---------------|--------------|----------------|-------------------------------------|-------|----------------|-------------------|------------------------------|
| Rainbow Trout | | | | | | | | |
| Barley | 19 | 8/29/2012 | 4,250 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| Bearpaw | 45 | 8/30/2012 | 5,000 | 12 Swanson R | 3N | WJHSFH | 2.20 | T/BU |
| Benka | 123 | 8/28/2012 | 5,950 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| Beverly | 42 | 8/23/2012 | 5,200 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| Big Beaver | 161 | 8/27/2012 | 16,100 | 12 Swanson R | 3N | WJHSFH | 2.30 | T |
| Brocker | 44.2 | 8/29/2012 | 4,250 | 12 Swanson R | 3N | WJHSFH | 2.30 | T |
| Bruce | 27 | 8/29/2012 | 992 | 11 Swanson R | 3N | WJHSFH | 8.00 | T |
| Canoe | 21 | 6/6/2012 | 2,001 | 11 Swanson R | 2N MX | WJHSFH | 8.50 | T/BU |
| Carpenter | 176 | 8/29/2012 | 16,660 | 12 Swanson R | 3N | WJHSFH | 2.30 | T |
| Caswell #3 | 33 | 8/28/2012 | 4,250 | 12 Swanson R | 3N | WJHSFH | 2.30 | T |
| Christiansen | 179 | 8/28/2012 | 9,860 | 12 Swanson R | 3N | WJHSFH | 2.30 | T |
| Coytote | 2.4 | 6/14/2012 | 300 | 11 Swanson R | 3N | WJHSFH | 7.40 | T |
| Crystal | 132 | 8/30/2012 | 17,300 | 12 Swanson R | 3N | WJHSFH | 2.30 | T |
| Dawn | 12 | 8/27/2012 | 3,000 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| Diamond | 139 | 8/27/2012 | 15,000 | 11 Swanson R | 3N | WJHSFH | 2.30 | T |
| Echo | 23 | 6/6/2012 | 1,550 | 11 Swanson R | 3N | WJHSFH | 7.40 | T |
| Farmer | 21 | 8/29/2012 | 935 | 11 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| Finger | 362 | 5/25/2012 | 30,494 | 11 Swanson R | 2N MX | Ft. Richardson | 3.60 | T |
| | | 8/30/2012 | 24,821 | 12 Swanson R | 2N MX | WJHSFH | 2.20 | T |
| Florence | 55 | 8/30/2012 | 5,499 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| Gate | 8.5 | 8/23/2012 | 973 | 11 Swanson R | 3N | WJHSFH | 6.80 | T |
| Golden | 13 | 8/23/2012 | 3,000 | 12 Swanson R | 3N | WJHSFH | 2.30 | T |
| Homestead | 17 | 8/27/2012 | 3,200 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| Honeybee | 58 | 8/30/2012 | 6,800 | 12 Swanson R | 3N | WJHSFH | 2.20 | T/BU |
| Ida | 46 | 8/27/2012 | 4,600 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| Irene | 18 | 8/27/2012 | 1,205 | 11 Swanson R | 3N | WJHSFH | 8.00 | T/BU |
| Kalmbach | 125 | 8/23/2012 | 12,500 | 12 Swanson R | 3N | WJHSFH | 2.30 | T |
| Kashwitna | 161 | 6/14/2012 | 3,700 | 12 Swanson R | 3N | WJHSFH | 7.40 | T |
| Kepler-Bradley | 58 | 6/6/2012 | 1,073 | 11 Swanson R | 2N MX | WJHSFH | 8.50 | T |
| | | 6/22/2012 | 2,072 | 11 Swanson R | 2N MX | WJHSFH | 8.30 | T |
| | | 8/2/2012 | 1,844 | 11 Swanson R | 2N MX | WJHSFH | 8.70 | T |
| Knik | 50 | 6/1/2012 | 2,278 | 11 Swanson R | 3N | WJHSFH | 7.40 | T |
| | | 8/2/2012 | 3,394 | 11 Swanson R | 2N MX | WJHSFH | 8.70 | T |
| Knob | 52 | 6/12/2012 | 2,912 | 11 Swanson R | 3N | WJHSFH | 7.60 | T |

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Table 59.-Page 2 of 5.

| LAKE STOCKED | SURFACE ACRES | DATE STOCKED | NUMBER STOCKED | BROODSTOCK (TREATMENT) ^a | 2N/3N | HATCHERY | STOCKING SIZE in. | STOCKING METHOD ^b |
|---------------|---------------|--------------|----------------|-------------------------------------|-------|----------------|-------------------|------------------------------|
| Rainbow Trout | | | | | | | | |
| Lalen | 92 | 5/25/2012 | 10,196 | 11 Swanson R | 3N | Ft. Richardson | 3.40 | T |
| | | 8/30/2012 | 7,897 | 12 Swanson R | 3N | WJHSFH | 2.20 | T |
| Little Beaver | 44 | 8/27/2012 | 5,400 | 12 Swanson R | 3N | WJHSFH | 2.30 | T |
| Little Lonely | 56 | 8/30/2012 | 8,400 | 12 Swanson R | 3N | WJHSFH | 2.20 | T |
| Loberg | 11 | 5/23/2012 | 990 | 11 Swanson R | 2N MX | WJHSFH | 8.10 | T |
| Long [K/B] | 74 | 8/28/2012 | 5,400 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| Long (Mi. 86) | 106 | 6/22/2012 | 3,539 | 11 Swanson R | 2N MX | WJHSFH | 8.30 | T |
| Loon | 108 | 8/23/2012 | 16,000 | 12 Swanson R | 3N | WJHSFH | 2.30 | T |
| Lorraine | 132 | 8/29/2012 | 11,200 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/4W |
| Lucille | 362 | 5/24/2012 | 6,413 | 11 Swanson R | 3N | WJHSFH | 7.50 | T |
| Lynne | 70 | 8/30/2012 | 8,000 | 12 Swanson R | 3N | WJHSFH | 2.20 | T |
| Marion | 113 | 8/27/2012 | 11,300 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| Matanuska | 62 | 5/10/2012 | 3,147 | 11 Swanson R | 3N | Ft. Richardson | 3.60 | T |
| | | 5/23/2012 | 5,937 | 11 Swanson R | 2N MX | WJHSFH | 8.10 | T |
| Meirs | 17 | 6/1/2012 | 1,212 | 11 Swanson R | 3N | WJHSFH | 7.40 | T |
| Memory | 84 | 6/1/2012 | 2,681 | 11 Swanson R | 3N | WJHSFH | 7.40 | T |
| Mile 180 | 30.6 | 6/18/2012 | 2,822 | 11 Swanson R | 3N | WJHSFH | 6.80 | T/BU |
| Morvro | 87 | 8/30/2012 | 4,096 | 11 Swanson R | 3N | Ft. Richardson | 2.30 | T/BU |
| North Friend | 81 | 8/29/2012 | 7,225 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| North Knob | 36.2 | 6/12/2012 | 685 | 11 Swanson R | 3N | WJHSFH | 7.60 | T/BU |
| North Rolly | 122 | 8/30/2012 | 6,500 | 11 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| Peggy | 53 | 8/28/2012 | 4,080 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| Ravine | 12 | 6/22/2012 | 1,347 | 11 Swanson R | 2N MX | WJHSFH | 8.30 | T/BU |
| | | 8/28/2012 | 2,121 | 11 Swanson R | 2N MX | WJHSFH | 8.70 | T/BU |
| Reed | 20 | 8/27/2012 | 3,000 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| Rhein | 84 | 8/30/2012 | 11,100 | 11 Swanson R | 3N | WJHSFH | 2.20 | T/BU |
| Rocky | 59 | 5/23/2012 | 1,385 | 11 Swanson R | 2N MX | Ft. Richardson | 8.10 | T |
| Seventeenmile | 100 | 8/27/2012 | 13,000 | 12 Swanson R | 3N | WJHSFH | 2.30 | T |
| Seymour | 229 | 5/25/2012 | 26,434 | 11 Swanson R | 3N | Ft. Richardson | 3.40 | T |
| | | 8/30/2012 | 12,410 | 12 Swanson R | 3N | WJHSFH | 2.20 | T |
| Slipper | 9 | 6/14/2012 | 1,670 | 11 Swanson R | 3N | WJHSFH | 7.40 | T |
| South Friend | 56 | 8/28/2012 | 6,800 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| South Rolly | 108 | 5/24/2012 | 5,315 | 11 Swanson R | 3N | WJHSFH | 7.50 | T |
| Tanaina | 109 | 6/20/2012 | 2,502 | 11 Swanson R | 3N | WJHSFH | 7.50 | T/BU |
| Tigger | 19 | 8/28/2012 | 3,400 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |

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Table 59.-Page 3 of 5.

| LAKE STOCKED | SURFACE ACRES | DATE STOCKED | NUMBER STOCKED | BROODSTOCK (TREATMENT) a | 2N/3N | HATCHERY | STOCKING SIZE in. | STOCKING METHOD b |
|----------------|---------------|--------------|----------------|--------------------------|-------|----------|-------------------|-------------------|
| Rainbow Trout | | | | | | | | |
| Twin Island | 151 | 8/29/2012 | 6,800 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/4W |
| Vera | 111 | 8/30/2012 | 11,100 | 12 Swanson R | 3N | WJHSFH | 2.20 | T/BU |
| Visnaw | 131 | 8/23/2012 | 13,100 | 12 Swanson R | 3N | WJHSFH | 2.30 | T |
| Walby | 54 | 6/20/2012 | 1,500 | 11 Swanson R | 3N | WJHSFH | 6.80 | T |
| Weiner | 21 | 6/12/2012 | 1,987 | 11 Swanson R | 3N | WJHSFH | 7.60 | T |
| West Beaver | 103 | 8/27/2012 | 8,250 | 12 Swanson R | 3N | WJHSFH | 2.30 | T |
| West Sunshine | 22 | 8/28/2012 | 3,825 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| Willow | 143 | 6/14/2012 | 2,381 | 11 Swanson R | 3N | WJHSFH | 7.40 | |
| Wolf | 62 | 8/27/2012 | 10,000 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| "X" | 101 | 8/28/2012 | 5,100 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| "Y" | 40 | 8/28/2012 | 4,250 | 12 Swanson R | 3N | WJHSFH | 2.30 | T/BU |
| Total 72 Lakes | 4,683 | | 514,860 | | | | | |

| | | | |
|-----------------|----------------|-----------------|------------------|
| 2012 Catchables | Diploid 25,703 | 2012 Catchables | Triplloid 43,078 |
| Fingerling | 55,315 | Fingerling | 390,764 |
| Total: | 81,018 | Total: | 433,842 |

| LAKE STOCKED | SURFACE ACRES | DATE STOCKED | NUMBER STOCKED | BROODSTOCK (TREATMENT) a | 2N/3N | HATCHERY | STOCKING SIZE in. | STOCKING METHOD b |
|-----------------------------|---------------|--------------|----------------|--------------------------|-------|----------|-------------------|-------------------|
| Coho Salmon (nonanadromous) | | | | | | | | |
| Barley | 19 | 7/13/2012 | 2,077 | 11 Ship Creek | 3N | WJHSFH | 3.5 | T/BU |
| Bearpaw | 45 | 6/29/2012 | 4,500 | 11 Ship Creek | 3N | WJHSFH | 3.2 | T |
| Carpenter | 176 | 7/13/2012 | 38,428 | 11 Ship Creek | 3N | WJHSFH | 3.5 | T |
| Christiansen | 179 | 6/12/2012 | 31,376 | 11 Ship Creek | 3N | WJHSFH | 3.2 | T |
| Diamond | 139 | 7/13/2012 | 14,192 | 11 Ship Creek | 3N | WJHSFH | 3.5 | T |
| Echo | 23 | 6/29/2012 | 2,300 | 11 Ship Creek | 3N | WJHSFH | 3.2 | T |
| Johnson | 40 | 6/16/2012 | 1,000 | 11 Ship Creek | 3N | WJHSFH | 3.2 | T |
| Kalmbach | 125 | 6/29/2012 | 25,724 | 11 Ship Creek | 3N | WJHSFH | 3.2 | T |
| Klaire | 7 | 6/29/2012 | 934 | 11 Ship Creek | 3N | WJHSFH | 3.2 | T/BU |
| Loberg | 11 | 6/29/2012 | 1,100 | 11 Ship Creek | 3N | WJHSFH | 3.2 | T |

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Table 59.-Page 4 of 5.

| LAKE STOCKED | SURFACE ACRES | DATE STOCKED | NUMBER STOCKED | BROODSTOCK (TREATMENT) ^a | 2N/3N | HATCHERY | STOCKING SIZE in. | STOCKING METHOD ^b |
|-----------------------------|------------------|------------------------|----------------|-------------------------------------|-------|----------------|-------------------|------------------------------|
| Coho Salmon (nonanadromous) | | | | | | | | |
| Lucille | 362 | 6/29/2012 | 8,000 | 11 Ship Creek | 3N | WJHSFH | 3.2 | T |
| Victor | 14 | 6/29/2012 | 2,752 | 11 Ship Creek | 3N | WJHSFH | 3.2 | T/BU |
| Willow | 143 | 6/29/2012 | 3,000 | 11 Ship Creek | 3N | WJHSFH | 3.2 | T |
| Total 13 Lakes | 1,283 | | 135,383 | | | | | |
| 2012 Fingerling | Triploid 135,383 | Total 135,383 | | | | | | |
| LAKE STOCKED | SURFACE ACRES | DATE STOCKED | NUMBER STOCKED | BROODSTOCK (TREATMENT) ^a | 2N/3N | HATCHERY | STOCKING SIZE in. | STOCKING METHOD ^b |
| Arctic Char | | | | | | | | |
| Carpenter | 176 | 5/31/2012 | 1,197 | 10 Aleknagik L. | 3N AF | Ft. Richardson | 11.00 | T |
| | | 5/31/2012 | 251 | 10 Aleknagik L. | 3N AF | Ft. Richardson | 10.70 | T |
| Echo | 23 | 5/15/2012 | 554 | 10 Aleknagik L. | 3N AF | Ft. Richardson | 11.00 | T |
| Finger | 362 | 8/9/2012 | 10,783 | 11 Aleknagik L. | 3N AF | Ft. Richardson | 2.90 | T |
| Johnson | 40 | 7/7/2012 | 305 | 11 Aleknagik L. | 3N AF | Ft. Richardson | 2.90 | T/BU |
| Long (Mi. 86) | 106 | 6/4/2012 | 1,576 | 10 Aleknagik L. | 3N AF | Ft. Richardson | 10.70 | T |
| | | 6/4/2012 | 1,002 | 10 Aleknagik L. | 3N AF | Ft. Richardson | 11.10 | T |
| Lynne | 70 | 5/15/2012 | 859 | 10 Aleknagik L. | 3N AF | Ft. Richardson | 11.00 | T |
| Matanuska | 62 | 8/9/2012 | 1,437 | 11 Aleknagik L. | 3N AF | Ft. Richardson | 2.60 | T |
| | | 8/9/2012 | 2,408 | 11 Aleknagik L. | 3N AF | Ft. Richardson | 3.10 | T |
| | | 8/9/2012 | 6,187 | 11 Aleknagik L. | 2N MX | Ft. Richardson | 3.80 | T |
| | | 9/7/2012 | 437 | 10 Aleknagik L. | 3N AF | Ft. Richardson | 11.20 | T |
| Memory | 84 | 5/15/2012 | 440 | 10 Aleknagik L. | 3N AF | Ft. Richardson | 11.00 | T |
| Rush | 100 | 8/7/2012 | 313 | 10 Aleknagik L. | 3N AF | Ft. Richardson | 10.60 | T |
| Total 9 Lakes 2012 | 884 | | 27,436 | | | | | |
| 2012 Fingerling | Diploid 6,187 | 2012 Fingerling 14,933 | | Triploid 14,933 | | | | |
| Catchables | 0 | Catchables 6,316 | | 6,316 | | | | |
| Total | 6,187 | Total 21,249 | | 21,249 | | | | |

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Table 59.-Page 5 of 5.

| LAKE STOCKED | SURFACE ACRES | DATE STOCKED | NUMBER STOCKED | BROODSTOCK (TREATMENT) ^a | 2N/3N | HATCHERY | STOCKING SIZE in. | STOCKING METHOD ^b |
|--------------------|---------------|--------------|----------------|-------------------------------------|-------|----------|-------------------|------------------------------|
| Arctic Grayling | | | | | | | | |
| Finger | | 7/27/2012 | 8,343 | 11 Chena River | 3N | WJHSFH | 1.1 | T |
| Knik | | 8/2/2012 | 3,000 | 11 Chena River | 3N | WJHSFH | 1.5 | T |
| Meirs | | 7/27/2012 | 4,000 | 11 Chena River | 3N | WJHSFH | 1.1 | T |
| Reed | | 7/27/2012 | 1,000 | 11 Chena River | 3N | WJHSFH | 1.1 | T/BU |
| Florence | | 7/27/2012 | 1,000 | 11 Chena River | 3N | WJHSFH | 1.1 | T |
| Ida | | 7/27/2012 | 3,700 | 11 Chena River | 3N | WJHSFH | 1.1 | T |
| Lorraine | | 8/2/2012 | 6,235 | 11 Chena River | 3N | WJHSFH | 1.55 | T |
| Canoe | | 7/27/2012 | 4,000 | 11 Chena River | 3N | WJHSFH | 1.1 | T |
| Kepler/Bradley | | 7/27/2012 | 2,952 | 11 Chena River | 3N | WJHSFH | 1.2 | T |
| Total 9 Lakes 2012 | | | 34,230 | | | | | |

| STOCKED | ACRES | DATE STOCKED | NUMBER STOCKED | (TREATMENT) ^a | 2N/3N | HATCHERY | SIZE in | METHOD ^b |
|--------------------------------|-------|--------------|----------------|--------------------------|-------|----------------|---------|---------------------|
| Chinook Salmon (nonanadromous) | | | | | | | | |
| Finger | 362 | 10/4/2012 | 12,093 | 11 Willow Creek | 3n | Ft. Richardson | 9 | T |
| Knik | 50 | 10/5/2012 | 3,486 | 11 Willow Creek | 2N MX | Ft. Richardson | 9 | T |
| Matanuska | 62 | 10/5/2012 | 2,974 | 11 Willow Creek | 2N MX | Ft. Richardson | 9 | T |
| Memory | 84 | 10/5/2012 | 2,167 | 11 Willow Creek | 2N MX | Ft. Richardson | 9 | T |
| Total 4 Lakes 2012 | | | 20,720 | | | | | |

Grand Total 82 Lakes 2012

| 2012 | Fingerling | 2012 | Catchables | Total |
|--------------|------------|--------------|------------|---------|
| Grand Totals | 621,879 | Grand Totals | 95,817 | 717,696 |

^a Treatment: AF = triploid all-female.

^b Stocking Method: T= tank truck; T/BU = carried in buckets to lake; T/4W = transported by 4-wheeler; A= airplane.

Table 60.-Fish Creek salmon harvests, by commercial set gillnet and personal use dip net, 1987-2012.

| Year | Commercial Gillnet ^a | | | | | | Personal Use Dip Net | | | | | |
|---------------|---------------------------------|--------|-------|------|---------|---------------------|----------------------|--------------------|------|-------|---------|--------|
| | Sockeye | Coho | Chum | Pink | Chinook | Total | Sockeye | Coho | Chum | Pink | Chinook | Total |
| 1987 | 24,090 | 2,043 | 403 | 264 | | ^b 26,800 | 2,200 | | | | | 2,200 |
| 1988 | 38,251 | 11,604 | 325 | 591 | 9 | 50,780 | 3,000 | | | | | 3,000 |
| 1989 | 47,925 | 6,075 | 4,979 | 545 | 4 | 59,528 | 5,000 | | | | | 5,000 |
| 1990 | 23,450 | 5,708 | 5,308 | 696 | 4 | 35,166 | 6,500 | | | | | 6,500 |
| 1991 | 10,459 | 1,630 | 961 | 21 | | ^b 13,071 | 14,369 | | 549 | 567 | | 15,485 |
| 1992 | 10,748 | 1,817 | 1,289 | 573 | | ^b 14,427 | 19,002 | | 607 | 678 | | 20,287 |
| 1993 | 47,751 | 831 | 990 | 29 | | ^b 49,601 | 37,224 | 973 | 503 | 2,068 | | 40,768 |
| 1994 | 7,528 | 809 | 357 | 141 | 0 | 8,835 | 16,012 | 1,336 | 248 | 632 | | 18,228 |
| 1995 | 19,477 | 1,999 | 1,018 | 72 | 5 | 22,571 | 9,102 | 2,640 | 99 | 290 | | 12,131 |
| 1996 | 35,245 | 1,802 | 448 | 25 | 0 | 37,520 | 17,260 | 2,414 | 153 | 331 | 37 | 20,195 |
| 1997 | 13,791 | 85 | 31 | 1 | 1 | 13,909 | 3,277 | 63 | 4 | 53 | 0 | 3,397 |
| 1998 | 2,597 | 548 | 105 | 0 | 0 | 3,250 | 4,036 | 649 | 29 | 80 | 1 | 4,795 |
| 1999 | No fishery | | | | | | 1,083 | 17 | 0 | 12 | 0 | 1,112 |
| 2000 | No fishery | | | | | | 6,925 | 958 | 29 | 83 | 0 | 7,995 |
| 2001 | No fishery | | | | | | 463 | ^c 13 | 1 | 4 | 1 | 482 |
| 2002 | Fishery eliminated by BOF | | | | | | No fishery | | | | | |
| 2003 | | | | | | | No fishery | | | | | |
| 2004 | | | | | | | No fishery | | | | | |
| 2005 | | | | | | | No fishery | | | | | |
| 2006 | | | | | | | No fishery | | | | | |
| 2007 | | | | | | | No fishery | | | | | |
| 2008 | | | | | | | No fishery | | | | | |
| 2009 | | | | | | | 9,898 | ^d 53 | 33 | 66 | 10 | 10,060 |
| 2010 | | | | | | | 23,705 | ^e 3,576 | 290 | 1,721 | 12 | 29,303 |
| 2011 | | | | | | | 4,240 | ^f 775 | 59 | 114 | 2 | 5,190 |
| 2012 | No fishery | | | | | | No fishery | | | | | |
| 1987-2012 Ave | 23,443 | 2,913 | 1,351 | 247 | 3 | 27,955 | 10,183 | 1,122 | 186 | 479 | 7 | 11,452 |

Source: Personal Use 1987-1995 Mills 1988-1994, Howe et al. 1996; Commercial Harvest from 1996-2000 are estimates from returned permits.

^a Harvest from statistical area 247-50.

^b Not reported.

^c Closed by EO on July 12 at 11pm (3 days of harvest). Reopened by EO at 6:00 am August 1 through 11:00 pm August 11.

^e Opened by EO at 6:00 am July 24 through 11:00pm July 31.

^f Opened by EO at 6:00 am July 29 through 11:00pm July 31.

Table 61.-Eulachon personal use harvest from Knik Arm and Westside Sustina management units, 1985-2012.

| Year | Knik Arm Management Unit | | | | Westside Susitna Management Unit | | | | | Total | |
|---------------|--------------------------|--------------|-----------------|----------|----------------------------------|--------------|--------------|------------|---------------|--------|--------|
| | Marine Fish Creek | Other Marine | Fresh Water | Subtotal | Alexander Creek | Deshka River | Yentna River | Lake Creek | Susitna River | | |
| 1985 | 0 | 560 | 0 | 560 | 0 | 0 | | 0 | 1,680 | 1,680 | 2,240 |
| 1986 | 0 | 3,351 | 0 | 3,351 | 0 | 7,300 | | 0 | 0 | 7,300 | 10,651 |
| 1987 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 9,265 | 9,265 | 9,265 |
| 1988 | 0 | 0 | 0 | 0 | 1,547 | 0 | | 1,083 | 6,219 | 8,849 | 8,849 |
| 1989 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 785 | 1,539 | 2,324 | 2,324 |
| 1990 | 0 | 0 | 0 | 0 | 707 | 842 | 3,368 | 674 | 0 | 5,591 | 5,591 |
| 1991 | 0 | 0 | 0 | 0 | 3,774 | 245 | 0 | 0 | 2,113 | 6,132 | 6,132 |
| 1992 | 0 | 0 | 0 | 0 | 379 | 0 | 1,082 | 0 | 14,062 | 15,523 | 15,523 |
| 1993 | 0 | 0 | 0 | 0 | 0 | 2,236 | 0 | 0 | 4,360 | 6,596 | 6,596 |
| 1994 | 0 | 2,292 | 0 | 2,292 | 0 | 458 | 3,438 | 235 | 5,352 | 9,483 | 11,775 |
| 1995 | 0 | 0 | 0 | 0 | 0 | 0 | 1,382 | 0 | 3,167 | 4,549 | 4,549 |
| 1996 | 0 | 0 | 0 | 0 | 364 | 0 | 364 | 0 | 1,455 | 2,183 | 2,183 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 2,703 | 0 | 5,812 | 8,515 | 8,515 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 2,050 | 0 | 3,745 | 5,795 | 5,795 |
| 1999 | 2,708 | 0 | 0 | 2,708 | 571 | 6,499 | 3,038 | 0 | 16,923 | 27,031 | 29,739 |
| 2000 | 0 | 2,725 | 3,406 | 6,131 | 7 | 1,363 | 2,725 | 0 | 1,397 | 5,492 | 11,623 |
| 2001 | 0 | 675 | 899 | 1,574 | 0 | 0 | 3,935 | 0 | 4,772 | 8,707 | 10,281 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 2,228 | 1,061 | 0 | 9 | 3,298 | 3,298 |
| 2003 | 0 | 1,214 | 364 | 1,578 | 911 | 0 | 0 | 0 | 4,554 | 5,465 | 7,043 |
| 2004 | 0 | 0 | 11 | 11 | 0 | 2,550 | 2,252 | 0 | 7,760 | 12,562 | 12,573 |
| 2005 | 0 | 0 | 0 | 0 | 0 | 1,979 | 0 | 0 | 1,089 | 3,068 | 3,068 |
| 2006 | 0 | 0 | 71 ^a | 71 | 0 | 0 | 0 | 0 | 0 | 0 | 71 |
| 2007 | 124 | 0 | 0 | 124 | 0 | 0 | 0 | 0 | 620 | 620 | 744 |
| 2008 | 0 | 0 | 0 | 0 | 0 | 1,095 | 0 | 0 | 737 | 1,832 | 1,832 |
| 2009 | 0 | 0 | 0 ⁰ | 0 | 0 | 0 | 0 | 0 | 3,520 | 3,520 | 3,520 |
| 2010 | 0 | 0 | 0 ⁰ | 0 | 0 | 0 | 2,510 | 0 | 2,133 | 4,643 | 4,643 |
| 2011 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,763 | 6,763 | 6,763 |
| 2012 | 0 | 0 | 0 | 0 | 0 | 0 | 3,290 | 0 | 0 | 3,290 | 3,290 |
| 1985-2011 Ave | 105 | 401 | 176 | 681 | 306 | 992 | 1,300 | 103 | 4,039 | 6,548 | 7,229 |
| 2002-2011 Ave | 12 | 121 | 45 | 178 | 91 | 785 | 582 | 0 | 2,719 | 4,177 | 4,356 |
| 2007-2011 Ave | 25 | 0 | 0 | 25 | 0 | 219 | 502 | 0 | 2,755 | 3,476 | 3,500 |

Note: Harvest estimates from Statewide Harvest Surveys (Mills 1986-1994; Howe et al. 1995, 1996, 2001a-d; Walker et al. 2003; Jennings et al. 2004, 2006a-b; Jennings et al. 2007, 2009a-b, 2010 a-b, 2011 a-b, *In prep*; Romberg et al. *In prep*). Eulachon grouped with "other fish" prior to 1985.

Table 62.–Beluga River senior personal use dipnet fishery summary, 2008–2012.

| Year | # Permits issued | # Permits returned | # Fished | Boat | Shore | Harvest | | | | |
|---------------|------------------|--------------------|----------|------|-------|---------|------|------|------|-------|
| | | | | | | Sockeye | Chum | Coho | Pink | Total |
| 2008 | 20 | 20 | 5 | 2 | 3 | 31 | 0 | 35 | 0 | 66 |
| 2009 | 11 | 11 | 10 | 4 | 6 | 140 | 0 | 78 | 7 | 225 |
| 2010 | 14 | 9 | 5 | 3 | 2 | 47 | 5 | 1 | 0 | 53 |
| 2011 | 13 | 12 | 7 | 5 | 2 | 137 | 5 | 17 | 0 | 159 |
| 2012 | 7 | 7 | 4 | 2 | 2 | 9 | 0 | 7 | 0 | 16 |
| 2008-2012 Ave | | | | | | 73 | 2 | 28 | 1 | 104 |

Table 63.—Upper Yentna River personal use and subsistence fish wheel salmon harvest, 1996–2012.

| Fishery | Year | Number of permits | | Salmon harvest (number of fish) | | | | | Harvest/ permit |
|--------------|---------------|-------------------|--------|---------------------------------|------|------|------|-------|--------------------|
| | | Returned | Issued | Sockeye | Coho | Pink | Chum | Total | |
| Personal use | 1996 | 14 | NR | 191 | 36 | 88 | 40 | 355 | 25 |
| | 1997 | 21 | NR | 492 | 61 | 21 | 8 | 582 | 28 |
| Subsistence | 1998 | 21 | 28 | 473 | 147 | 33 | 20 | 673 | 32 |
| | 1999 | 21 | NR | 455 | 43 | 15 | 11 | 524 | 25 |
| | 2000 | 20 | NR | 379 | 92 | 4 | 7 | 482 | 24 |
| | 2001 | 16 | NR | 514 | 47 | 9 | 4 | 574 | 36 |
| | 2002 | 25 | NR | 414 | 116 | 14 | 28 | 572 | 23 |
| | 2003 | 15 | NR | 433 | 76 | 2 | 13 | 524 | 35 |
| | 2004 | 22 | NR | 391 | 132 | 0 | 2 | 525 | 24 |
| | 2005 | 21 | NR | 177 | 42 | 24 | 25 | 268 | 13 |
| | 2006 | 23 | 26 | 388 | 178 | 15 | 27 | 608 | 26 |
| | 2007 | 22 | 22 | 367 | 66 | 17 | 18 | 468 | 21 |
| | 2008 | 16 | 16 | 310 | 57 | 23 | 7 | 397 | 25 |
| | 2009 | 16 | 17 | 253 | 14 | 0 | 6 | 273 | 17 |
| | 2010 | 26 | 26 | 675 | 52 | 41 | 18 | 786 | 30 |
| | 2011 | 25 | 25 | 598 | 90 | 3 | 21 | 712 | 28 |
| | 2012 | 20 | 21 | 279 | 24 | 21 | 19 | 384 | 19 |
| | 1996-2011 Ave | 20 | 23 | 407 | 78 | 19 | 16 | 520 | 26 |
| | 2002-2011 Ave | 21 | 22 | 401 | 82 | 14 | 17 | 513 | 24 |
| | 2007-2011 Ave | 21 | 21 | 441 | 56 | 17 | 14 | 527 | 24 |

Note: NR = not reported.

Table 64.—Tyonek subsistence gillnet salmon harvest, 1981–2012.

| Year | Permits | | Reported salmon harvests | | | | | Total |
|-----------|---------|----------|--------------------------|---------|------|------|------|-------|
| | Issued | Returned | Chinook | Sockeye | Coho | Chum | Pink | |
| 1981 | 70 | NA | 2,002 | 269 | 64 | 32 | 15 | 2,382 |
| 1982 | 69 | NA | 1,590 | 310 | 113 | 4 | 14 | 2,031 |
| 1983 | 75 | NA | 2,665 | 187 | 59 | 6 | 0 | 2,917 |
| 1984 | 75 | NA | 2,200 | 266 | 79 | 23 | 3 | 2,571 |
| 1985 | 76 | NA | 1,472 | 164 | 91 | 10 | 0 | 1,737 |
| 1986 | 65 | NA | 1,676 | 203 | 223 | 46 | 50 | 2,198 |
| 1987 | 64 | 61 | 1,610 | 166 | 149 | 24 | 10 | 1,959 |
| 1988 | 47 | 42 | 1,587 | 91 | 253 | 12 | 8 | 1,951 |
| 1989 | 49 | 47 | 1,250 | 85 | 115 | 1 | 0 | 1,451 |
| 1990 | 42 | 37 | 781 | 66 | 352 | 12 | 20 | 1,231 |
| 1991 | 57 | 54 | 902 | 20 | 58 | 0 | 0 | 980 |
| 1992 | 57 | 44 | 907 | 75 | 234 | 19 | 7 | 1,242 |
| 1993 | 62 | 54 | 1,370 | 57 | 77 | 17 | 19 | 1,540 |
| 1994 | 58 | 49 | 770 | 85 | 101 | 22 | 0 | 978 |
| 1995 | 70 | 55 | 1,317 | 45 | 153 | 15 | 0 | 1,530 |
| 1996 | 73 | 49 | 1,039 | 68 | 137 | 7 | 21 | 1,272 |
| 1997 | 70 | 42 | 639 | 101 | 137 | 8 | 0 | 885 |
| 1998 | 74 | 49 | 1,027 | 163 | 64 | 2 | 1 | 1,257 |
| 1999 | 77 | 54 | 1,230 | 144 | 94 | 11 | 32 | 1,511 |
| 2000 | 60 | 59 | 1,157 | 63 | 87 | 0 | 6 | 1,313 |
| 2001 | 84 | 58 | 976 | 172 | 49 | 6 | 4 | 1,207 |
| 2002 | 101 | 71 | 1,080 | 209 | 115 | 4 | 9 | 1,417 |
| 2003 | 87 | 74 | 1,183 | 111 | 44 | 10 | 7 | 1,355 |
| 2004 | 97 | 75 | 1,345 | 93 | 130 | 0 | 0 | 1,568 |
| 2005 | 78 | 66 | 982 | 61 | 139 | 2 | 0 | 1,184 |
| 2006 | 82 | 55 | 943 | 20 | 14 | 1 | 0 | 978 |
| 2007 | 84 | 67 | 1,281 | 200 | 123 | 2 | 3 | 1,609 |
| 2008 | 94 | 77 | 1,178 | 121 | 194 | 9 | 13 | 1,515 |
| 2009 | 89 | 69 | 636 | 184 | 258 | 2 | 1 | 1,081 |
| 2010 | 105 | 77 | 843 | 212 | 167 | 2 | 2 | 1,226 |
| 2011 | 114 | 63 | 595 | 154 | 26 | 7 | 7 | 789 |
| 2012 | 89 | 69 | 840 | 176 | 138 | 2 | 4 | 1,160 |
| Average | | | | | | | | |
| 2007-2011 | 97 | 71 | 907 | 174 | 154 | 4 | 5 | 1,244 |
| 2002-2011 | 93 | 69 | 1,007 | 137 | 121 | 4 | 4 | 1,272 |
| 1981-2011 | 74 | 58 | 1,233 | 134 | 126 | 10 | 8 | 1,512 |

Note: NA = Information regarding the number of permits returned in 1981-1986 does exist; however, it was not available at time this report was written.

Source ADF&G Division of Subsistence, Alaska Subsistence Fisheries Database 2013, Accessed 12/2013.

Table 65.—Contribution of hatchery fish to the Fish Creek sockeye salmon escapement 2002–2012.

| Return Year | Percent Hatchery | Weir Count |
|----------------|---------------------|---------------|
| 2002 | 2% | 90,482 |
| 2003 | 12% | 91,952 |
| 2004 | 17% | 22,157 |
| 2005 | 47% | 14,215 |
| 2006 | 73% | 32,562 |
| 2007 | 68% | 27,948 |
| 2008 | 49% | 19,339 |
| 2009 | 35% | 83,480 |
| 2010 | 61% | 126,836 |
| 2011 | 71% | 66,678 |
| 2012 | 12% | 18,823 |
| 2002-2010 Ave | 57% | 56,552 |
| 2006-2010 Ave | 57% | 58,033 |

Table 66.–Salmon harvests by educational fishery permit holders in Northern Cook Inlet Management Area, 1994–2012.

| Educational fishery permit holder | Year | Dates of operation | Salmon harvest (number of fish) | | | | | Total |
|-----------------------------------|---------------|--------------------|---------------------------------|------|---------|------|------|-------|
| | | | Chinook | Coho | Sockeye | Pink | Chum | |
| Knik Tribal Council | 1994 | ND | | ND | ND | ND | ND | 29 |
| | 1995 | ND | 5 | 1 | 21 | 0 | 1 | 28 |
| | 1996 | Jun 17-Jul 20 | 5 | 45 | 163 | 3 | 62 | 278 |
| | 1997 | May 29-Aug 10 | 19 | 34 | 153 | 0 | 15 | 221 |
| | 1998 | May 14-Aug 15 | 31 | 153 | 186 | 0 | 85 | 455 |
| | 1999 | May 27-Aug 14 | 42 | 120 | 177 | 0 | 55 | 394 |
| | 2000 | May 26-Aug 06 | 65 | 63 | 34 | 0 | 18 | 180 |
| | 2001 | May 13-Aug 10 | 32 | 34 | 71 | 0 | 0 | 137 |
| | 2002 | May 20-Aug 08 | 55 | 99 | 136 | 5 | 36 | 331 |
| | 2003 | May 24-Aug 15 | 34 | 87 | 654 | 3 | 45 | 823 |
| | 2004 | May 15-Aug 06 | 105 | 207 | 142 | 20 | 29 | 503 |
| | 2005 | May 17-Aug 15 | 25 | 80 | 200 | 9 | 16 | 330 |
| | 2006 | May 15-Sep 30 | 24 | 75 | 197 | 12 | 7 | 315 |
| | 2007 | | 19 | 75 | 7 | 0 | 16 | 117 |
| | 2008 | May 15-July 19 | 12 | 70 | 79 | 0 | 0 | 161 |
| | 2009 | July 1-Sept 30 | 0 | 79 | 66 | 1 | 8 | 154 |
| | 2010 | July 6-July 24 | 0 | 94 | 72 | 21 | 61 | 248 |
| | 2011 | July 1-Sept 30 | 0 | 8 | 61 | 1 | 0 | 70 |
| | 2012 | July 10-July 12 | 0 | 6 | 48 | 0 | 4 | 58 |
| | 1994-2012 Ave | | | 26 | 74 | 137 | 4 | 25 |
| 2008-2012 Ave | | | 2 | 51 | 65 | 5 | 15 | 138 |
| Eklutna Village | 1994 | ND | ND | 7 | ND | ND | ND | 172 |
| | 1995 | ND | 14 | 37 | 55 | 6 | 42 | 154 |
| | 1996 | ND | ND | ND | ND | | ND | ND |
| | 1997 | May 01-Sep 30 | 7 | 14 | 39 | 16 | 7 | 83 |
| | 1998 | May 01-Sep 30 | 32 | 116 | 104 | 6 | 51 | 309 |
| | 1999 | May 01-Sep 30 | 11 | 25 | 80 | 3 | 20 | 139 |
| | 2000 | May 01-Sep 30 | 17 | 85 | 76 | 21 | 51 | 250 |
| | 2001 | May 01-Sep 30 | 58 | 95 | 52 | 56 | 34 | 295 |
| | 2002 | May 01-Sep 30 | 58 | 156 | 220 | 40 | 76 | 550 |
| | 2003 | May 01-Sep 30 | 69 | 49 | 160 | 14 | 21 | 313 |
| | 2004 | May 01-Sep 30 | 50 | 297 | 311 | 4 | 71 | 733 |

-continued-

Table 66.–Page 2 of 2.

| Educational fishery | | Dates of operation | Salmon harvest (number of fish) | | | | | |
|-------------------------------|----------------------------|--|---------------------------------|------|---------|-------|------|-------|
| permit holder | Year | | Chinook | Coho | Sockeye | Pinck | Chum | Total |
| Eklutna Village | 2005 | May 01-Sep 30 | 72 | 242 | 166 | 8 | 29 | 517 |
| | 2006 | May 01-Sep 30 | 43 | 199 | 59 | 11 | 7 | 319 |
| | 2007 | | | | | | | 0 |
| | 2008 | | 16 | 178 | 19 | 3 | 0 | 216 |
| | 2009 | July 1-Sept 30 | 0 | 221 | 135 | 20 | 23 | 399 |
| | 2010 | | | | | | | |
| | 2011 | July 1-Sept 30 | 0 | 282 | 343 | 32 | 47 | 704 |
| | 2012 | July 1-Sept 30 | 0 | 242 | 218 | 10 | 63 | 533 |
| | 1994-2012 Ave | | 30 | 140 | 136 | 17 | 36 | 334 |
| | 2008-2012 Ave | | 4 | 231 | 179 | 16 | 33 | 463 |
| Tyonek Village | 1998 | Aug 12-Aug 14 | 0 | 41 | 11 | 3 | 1 | 56 |
| | 1999 | Jul 07-Jul 10 | 0 | 0 | 100 | 0 | 0 | 100 |
| | 2000 | Jul 06-Jul 09 | 0 | 0 | 97 | 0 | 0 | 97 |
| | 2008 | May 31-June 1 | 2 | 0 | 0 | 0 | 0 | 2 |
| | 2009 | June 4-June 12 | 3 | 0 | 0 | 0 | 0 | 3 |
| | 2010 | June 21-June 23 | 0 | 0 | 1 | 0 | 0 | 1 |
| | 2011 | Did not receive a permit - low Chinook abundance | | | | | | |
| | 2012 | Did not receive a permit - low Chinook abundance | | | | | | |
| | 1998-2010 Ave | | 1 | 7 | 35 | 1 | 0 | 43 |
| | Big Lake Cultural Outreach | 2005 | May 15-Sep 30 | 61 | 99 | 98 | 56 | 34 |
| 2006 | | Jun 07-Jul 31 | 8 | 12 | 68 | 1 | 3 | 92 |
| 2007 | | | 19 | 46 | 7 | 0 | 16 | 88 |
| 2008 | | June 19-Aug 2 | 20 | 62 | 9 | 0 | 6 | 97 |
| 2009 | | July 7- Aug 2 | 0 | 70 | 35 | 4 | 1 | 110 |
| 2010 | | July 22-Aug 11 | 0 | 100 | 94 | 6 | 16 | 216 |
| 2011 | | 3-Aug | 0 | 6 | 4 | 3 | 3 | 16 |
| 2012 | | Did not fish | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005-2012 Ave | | | 14 | 49 | 39 | 9 | 10 | 121 |
| McLaughlin | 2012 | Permit terminated to conserve coho | | | | | | |
| Intertribal Native Leadership | 2006 | May 15-Sep 30 | 12 | 95 | 135 | 85 | 21 | 348 |

Note: ND = no data because no attempt was made to collect it.

FIGURES

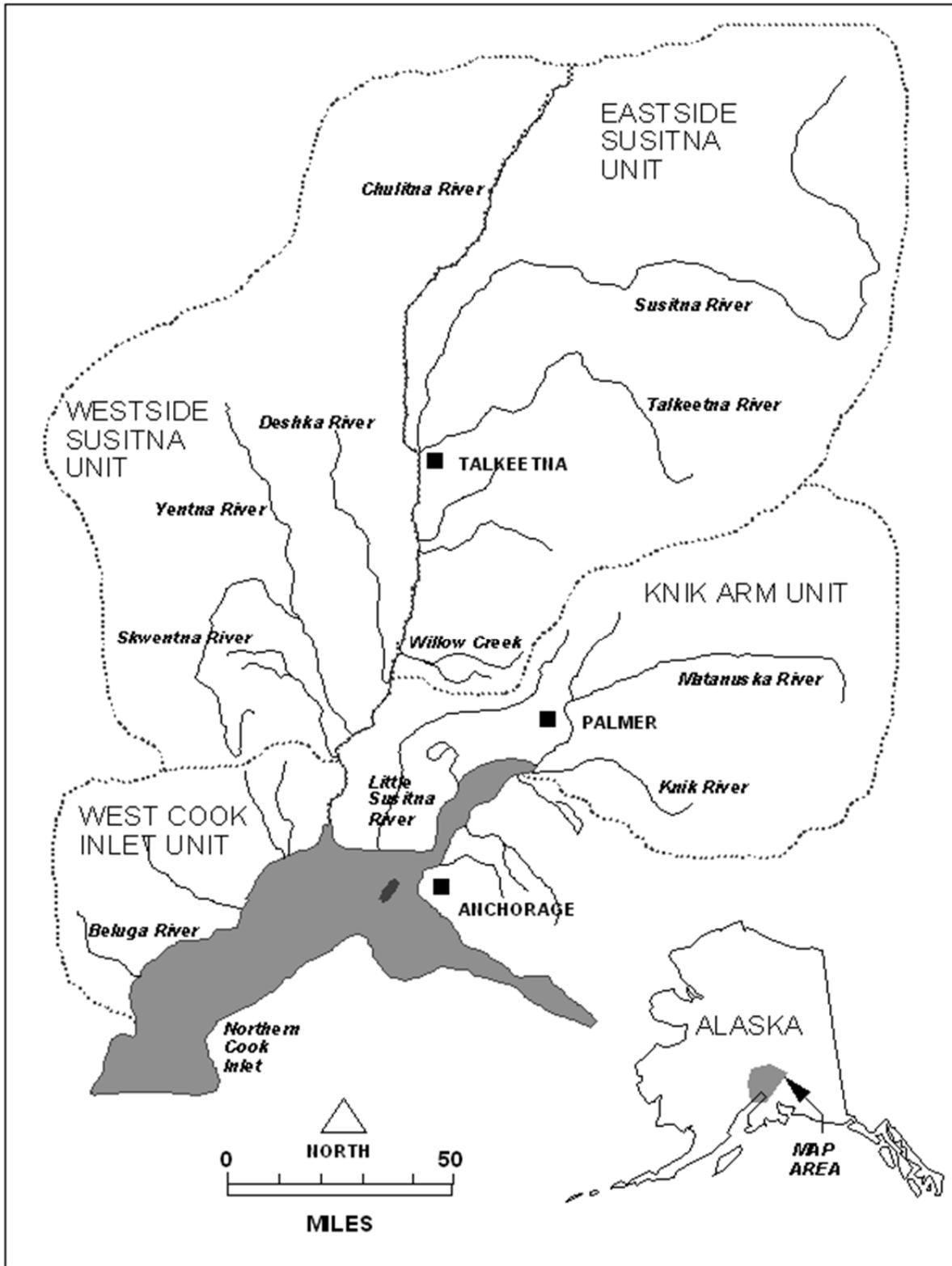


Figure 1.—Northern Cook Inlet (NCI) sport fish management area.

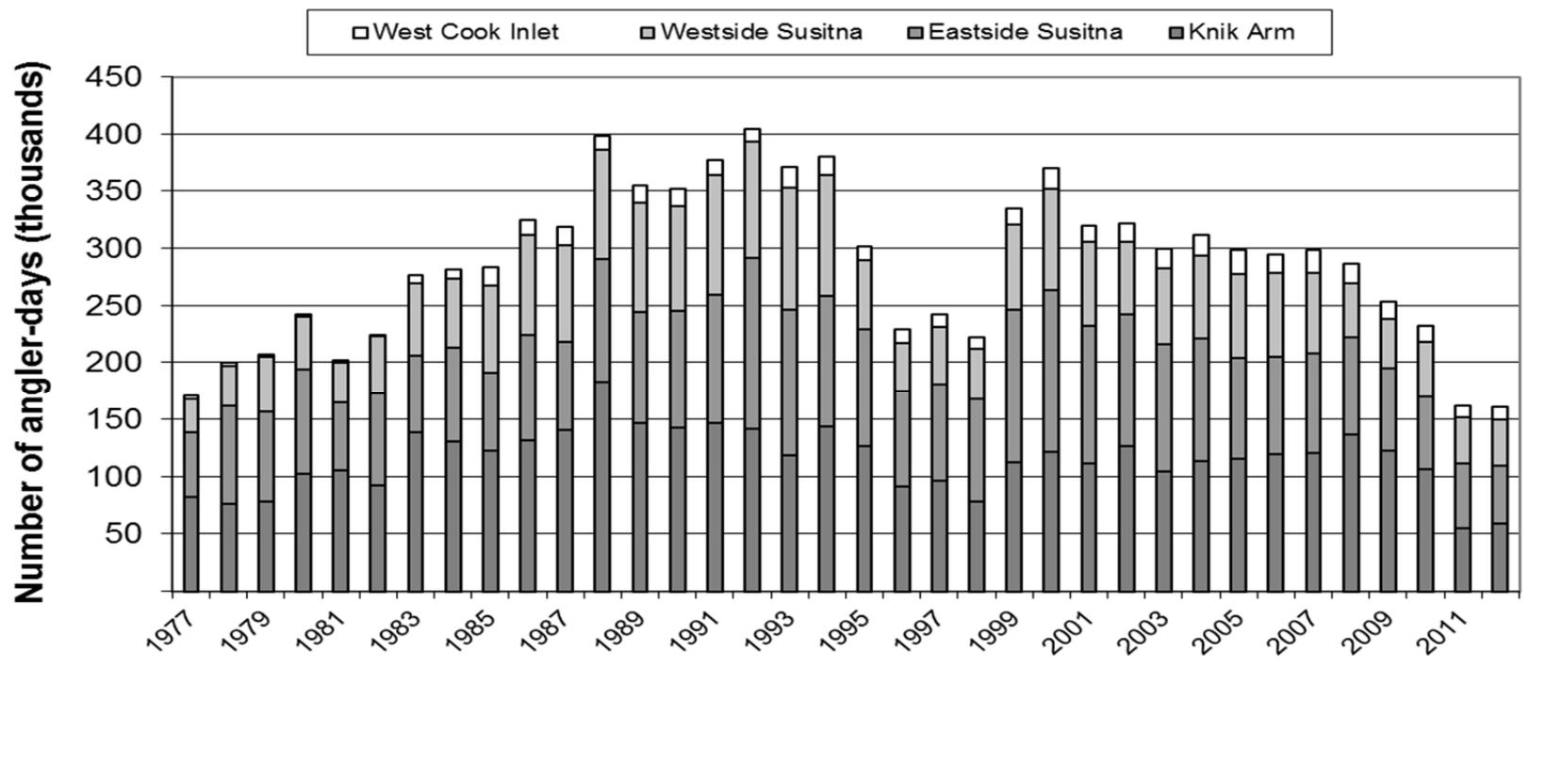


Figure 2.—Angler-days of sport fishing effort expended by recreational anglers fishing Northern Cook Inlet Management Area waters, 1977–2012.

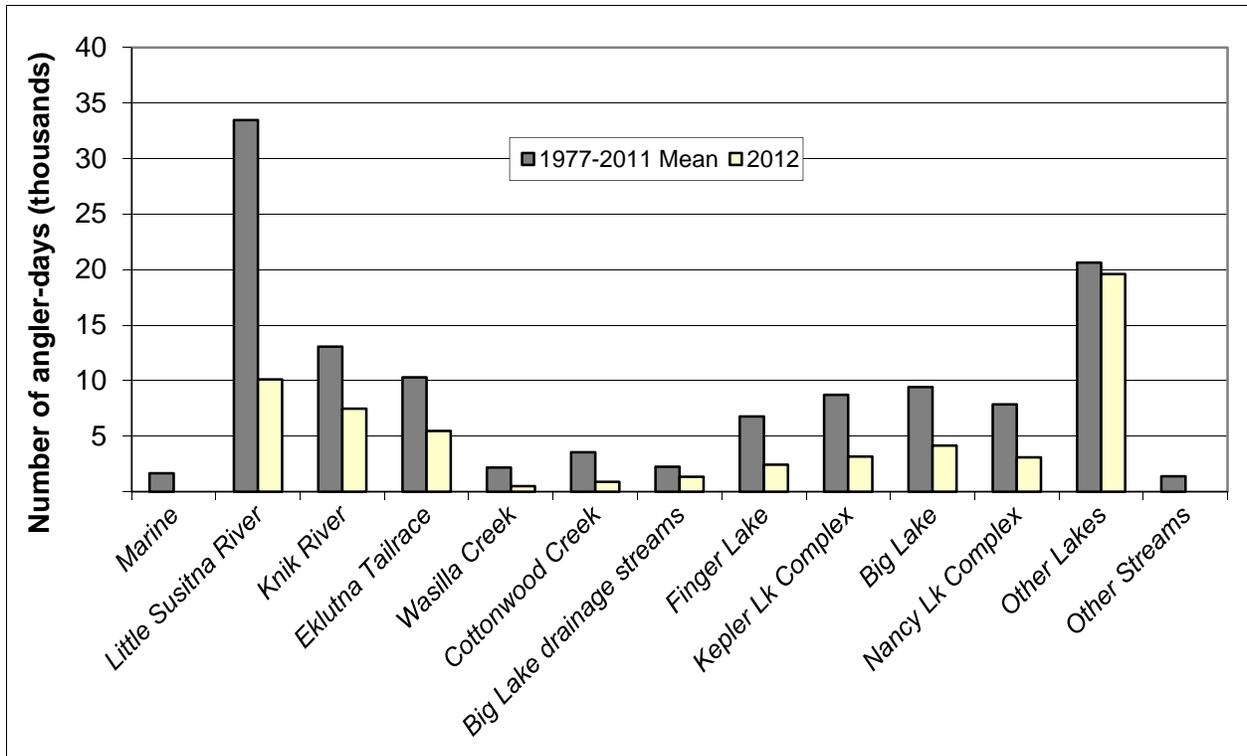


Figure 3.—Comparison of 2012 versus the 1977–2011 mean annual sport fishing effort (number of angler-days expended per year) at sites in the Knik Arm Management Unit.

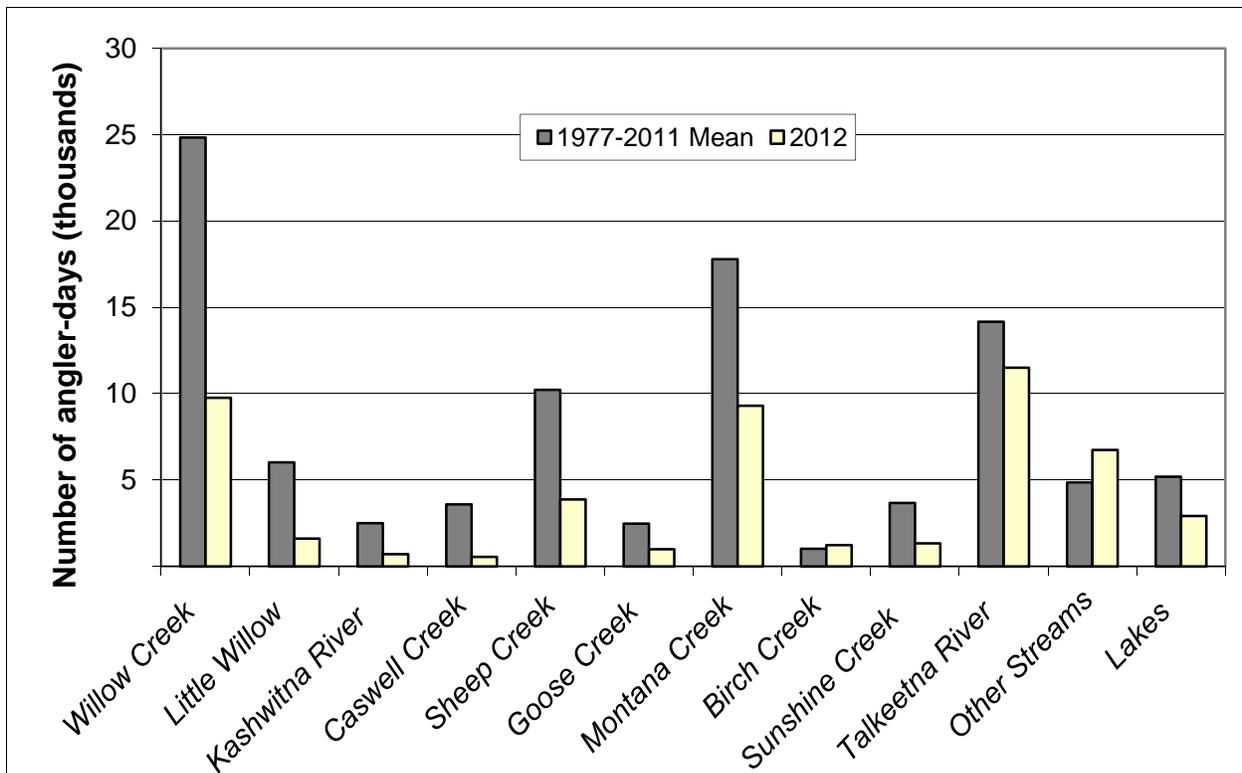


Figure 4.—Comparison of 2012 versus the 1977–2011 mean annual sport fishing effort (number of angler-days expended per year) at sites in the Eastside Susitna Management Unit.

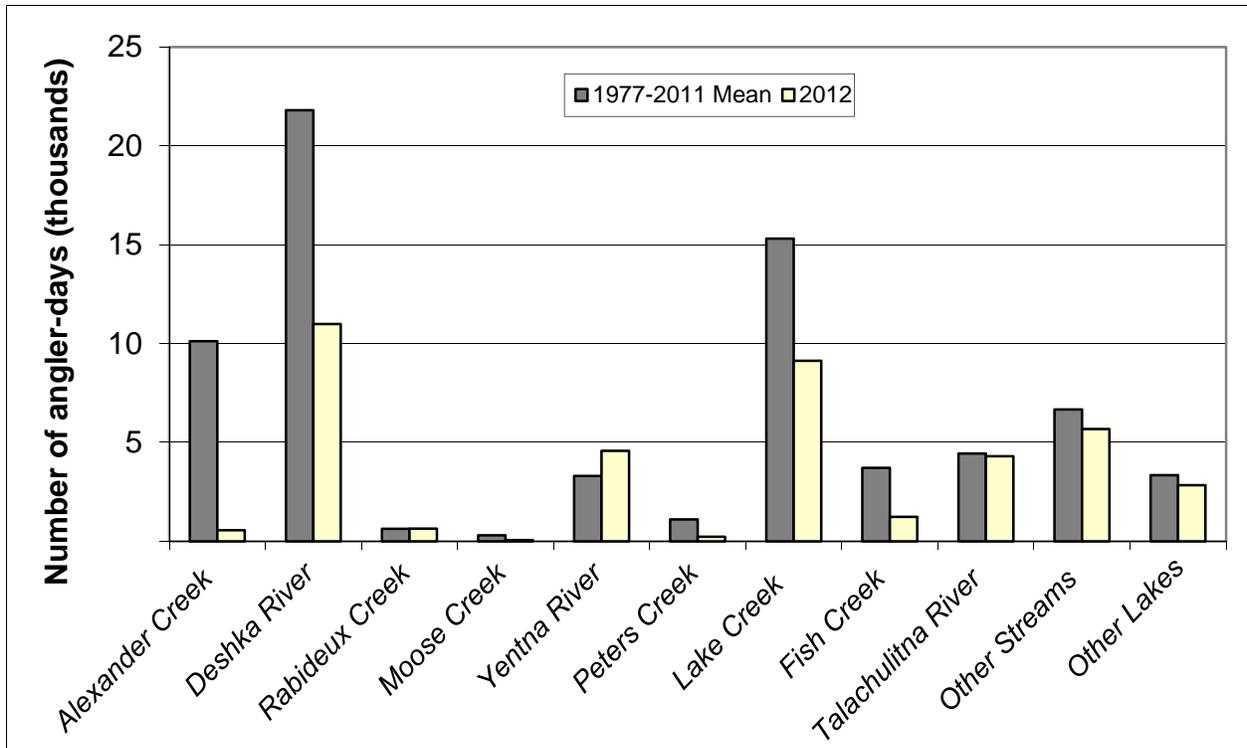
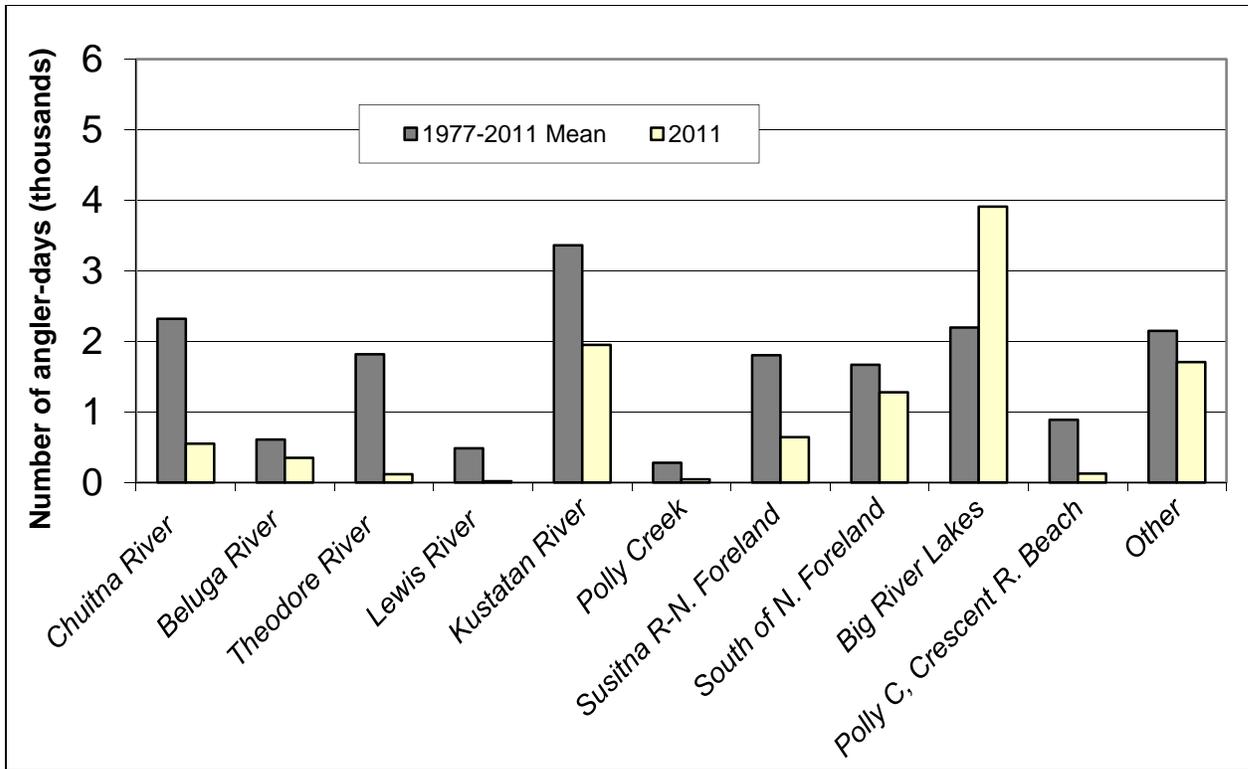


Figure 5.—Comparison of 2012 versus the 1977–2011 mean annual sport fishing effort (number of angler-days expended per year) at sites in the Westside Susitna Management Unit.



Note: Big River Lakes (Big River drainage, including Wolverine Creek).

Figure 6.—Comparison of 2012 versus the 1977–2011 mean annual sport fishing effort (number of angler-days expended per year) at sites in West Cook Inlet Management Unit.

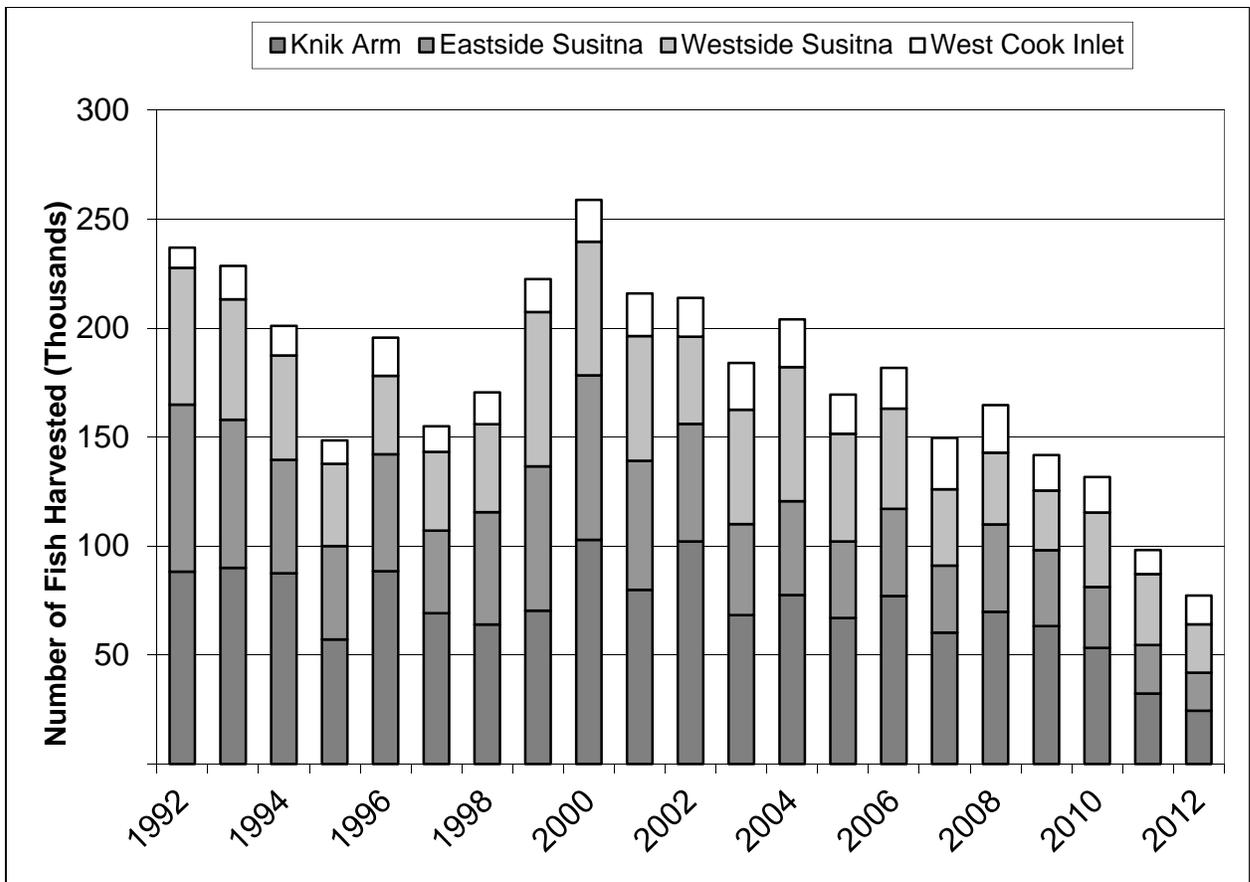


Figure 7.—Northern Cook Inlet Management Area recreational harvest, 1977–2012.

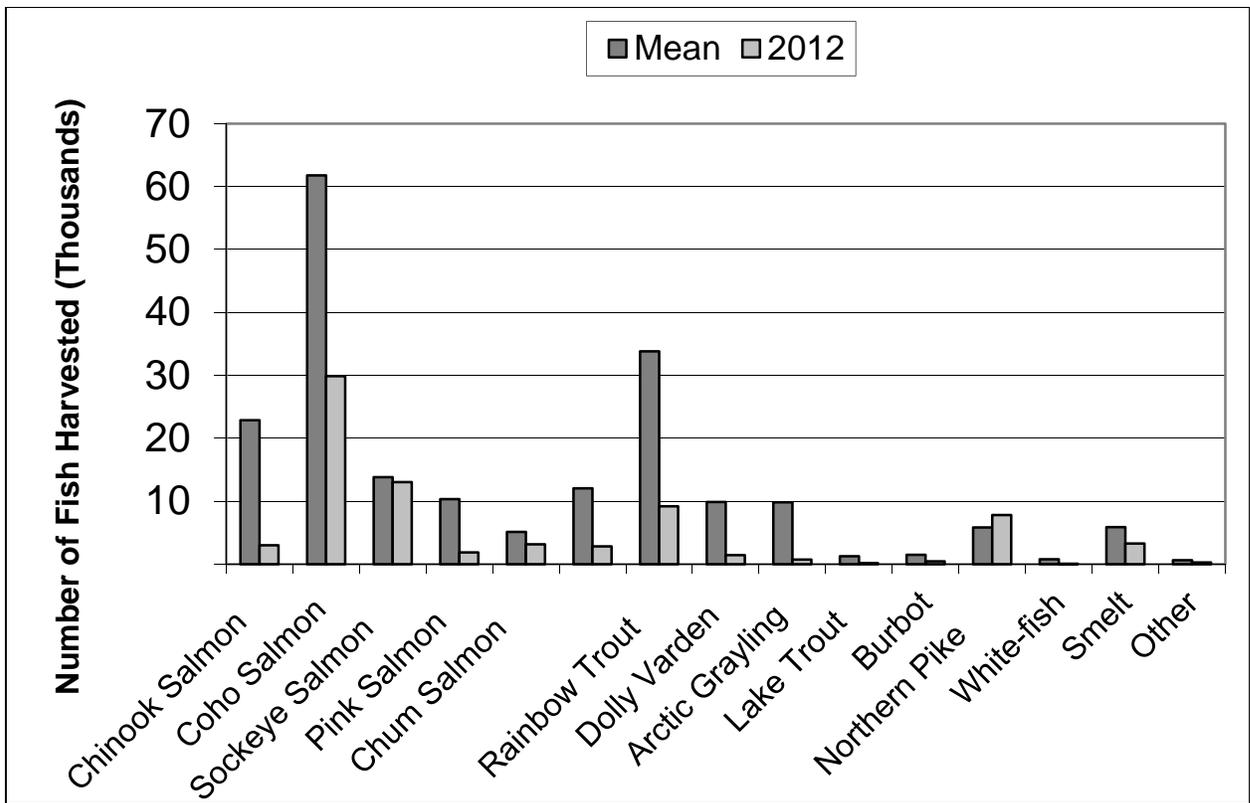


Figure 8.-Northern Cook Inlet Management Area mean recreational harvest by species, 1977-2012, recreational harvest.

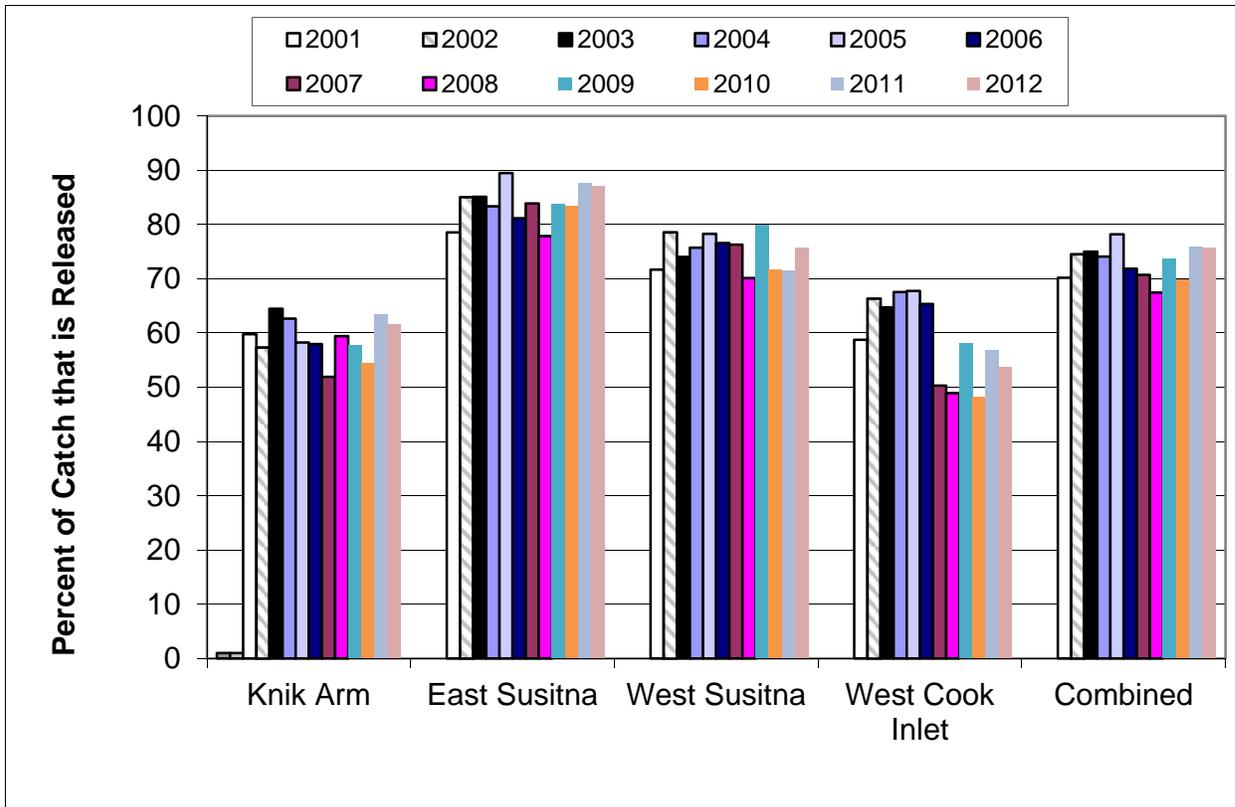


Figure 9.-Percent of the recreational catch of all species from the Northern Cook Inlet Management Area that was released, 2001-2012, by management unit.

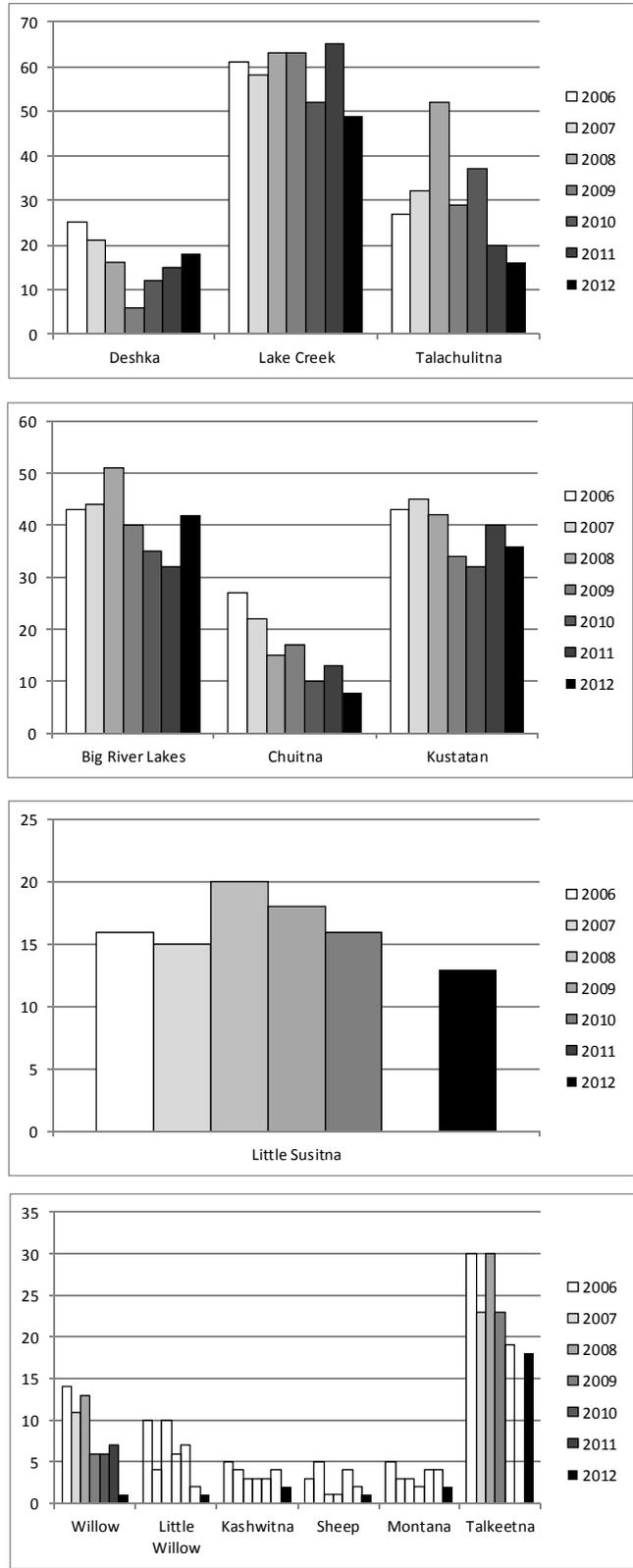


Figure 10.—Number of guides fishing major systems in the Northern Cook Inlet Management Area 2006-2012.

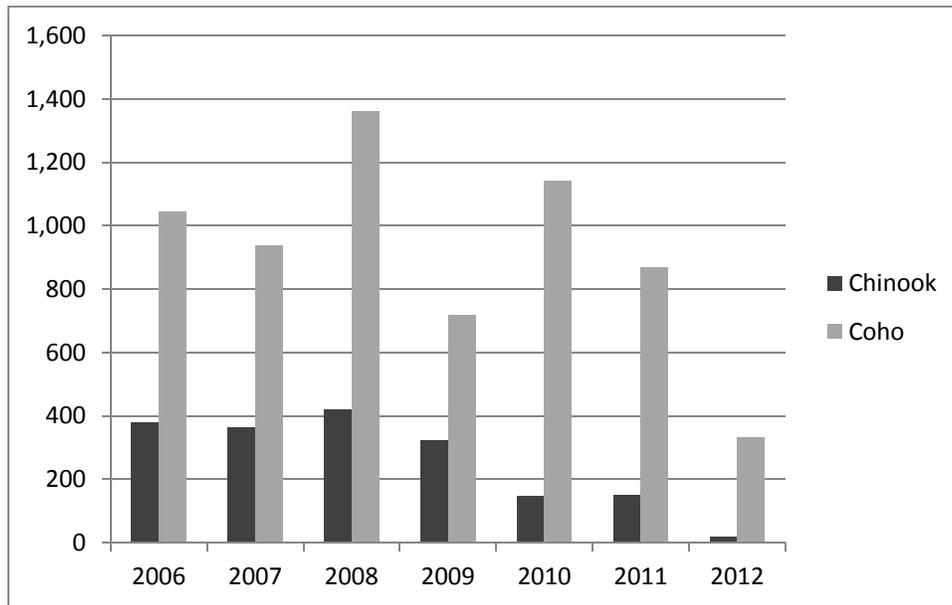


Figure 11.—Number of Chinook and coho salmon harvested by guided anglers on the Little Susitna River, 2006-2012.

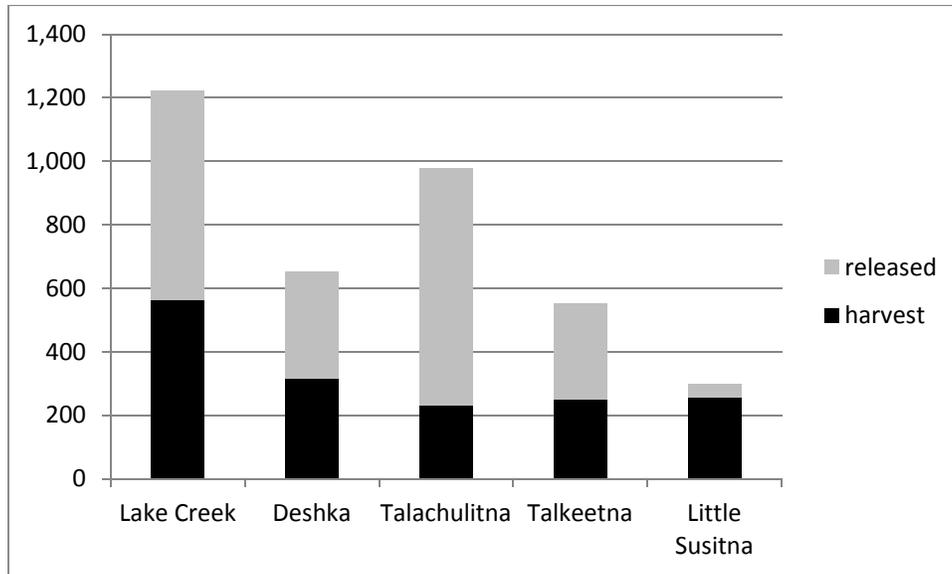


Figure 12.—Average guided harvest and average number released of Chinook salmon caught in the Northern Cook Inlet Management Area 2006–2012.

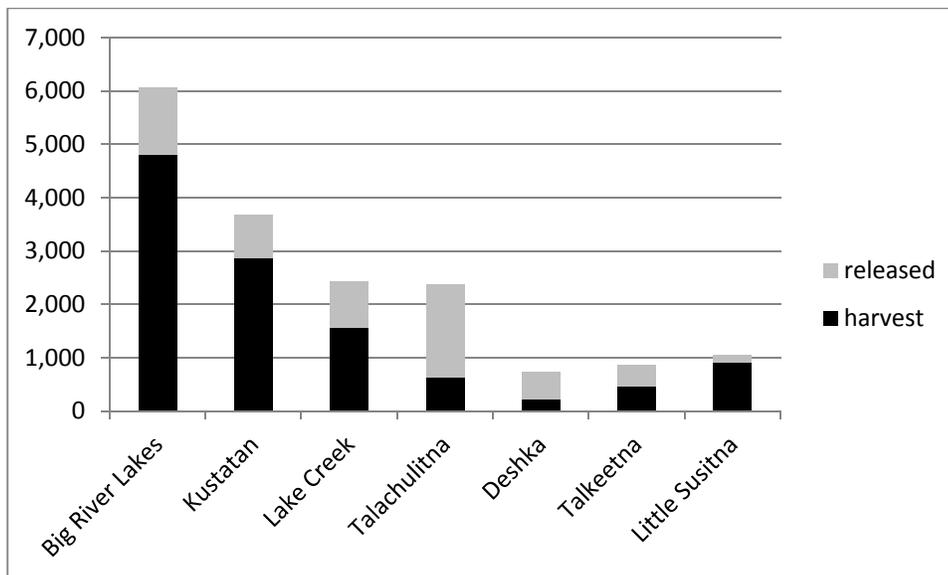


Figure 13.—Average guided harvest and average number released of coho salmon caught in the NCIMA 2006-2012.

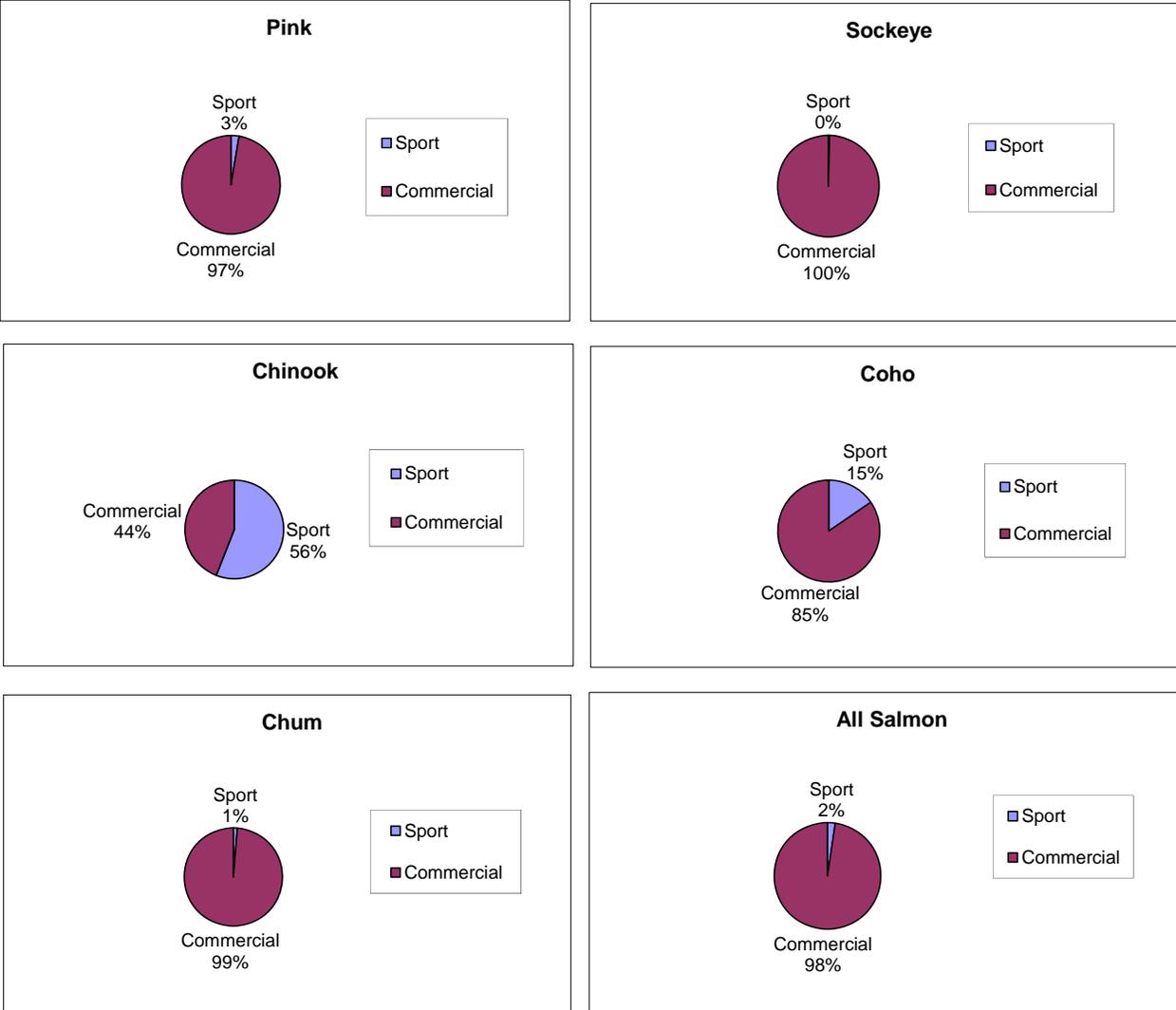


Figure 14.—Composition of the Northern Cook Inlet salmon harvest, 1977–2012.

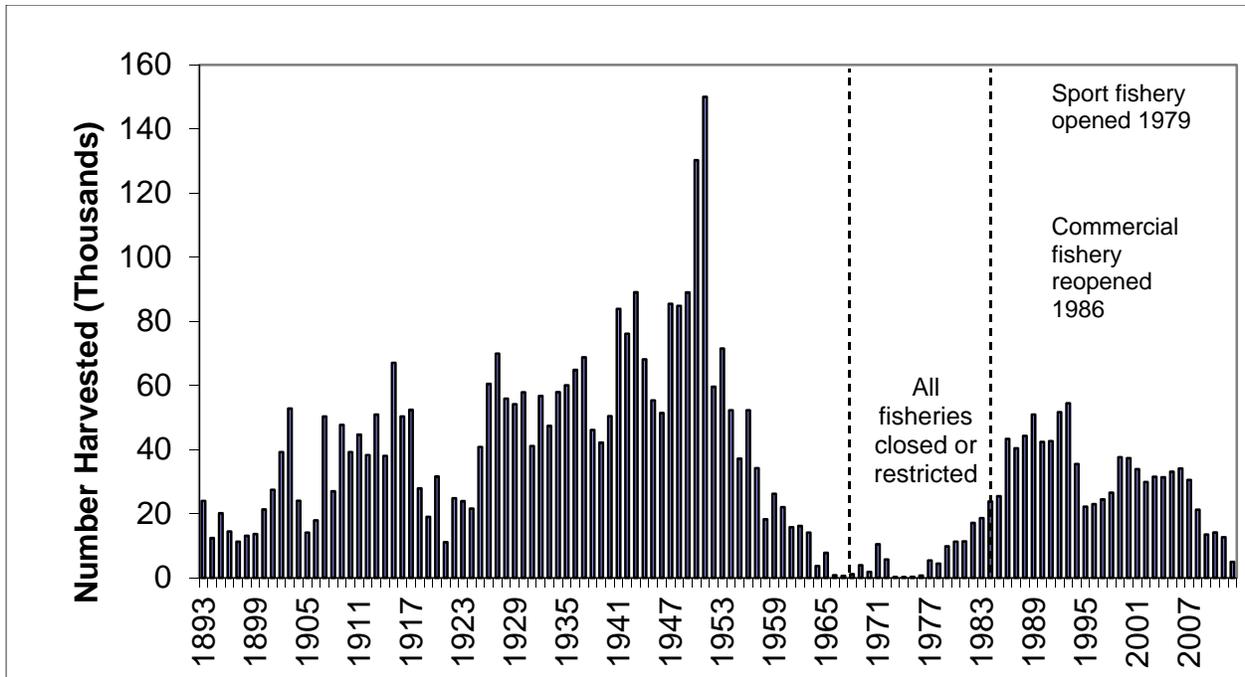


Figure 15.-Estimated harvests by all user groups of Chinook salmon of Northern Cook Inlet origin, 1893-2012

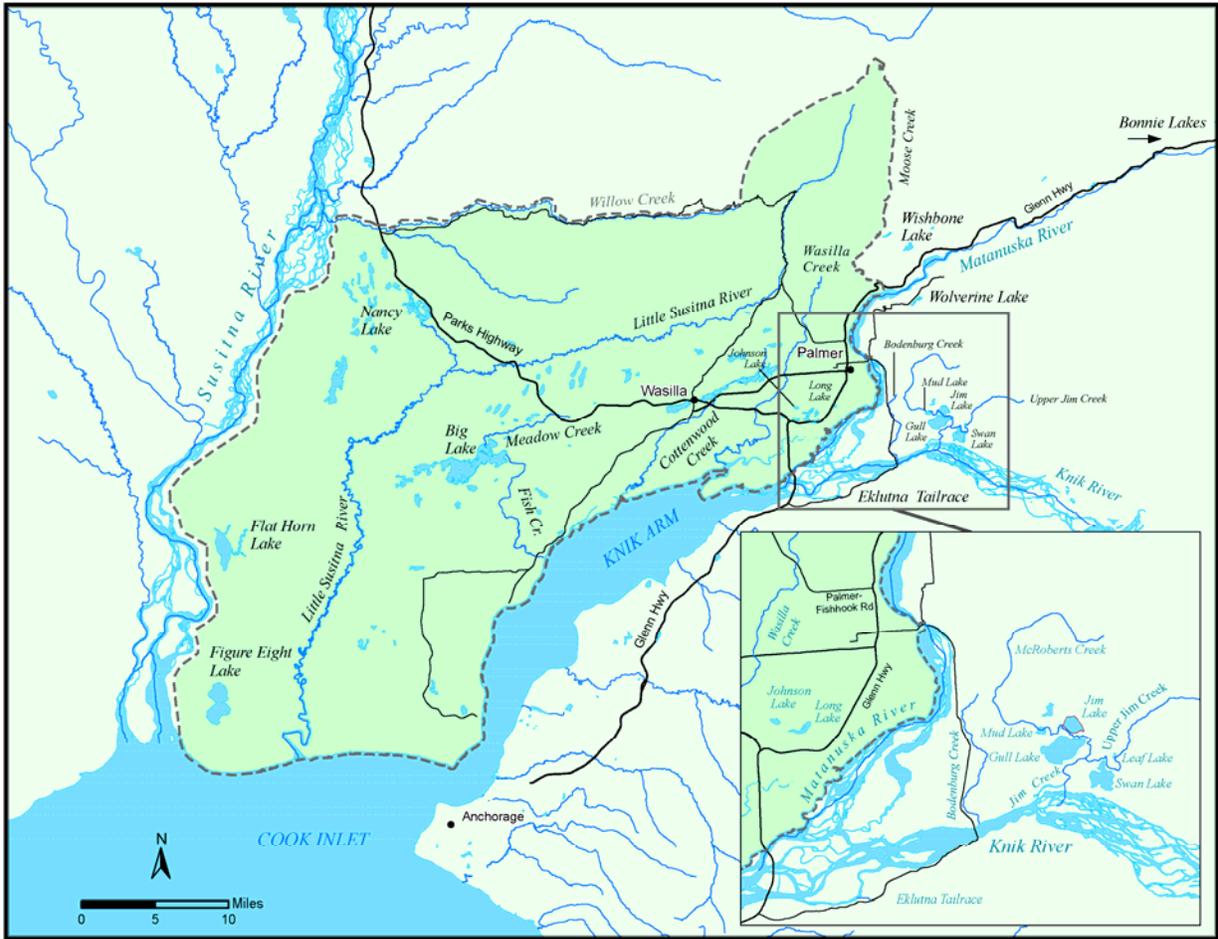


Figure 16.—Knik Arm Freshwaters.

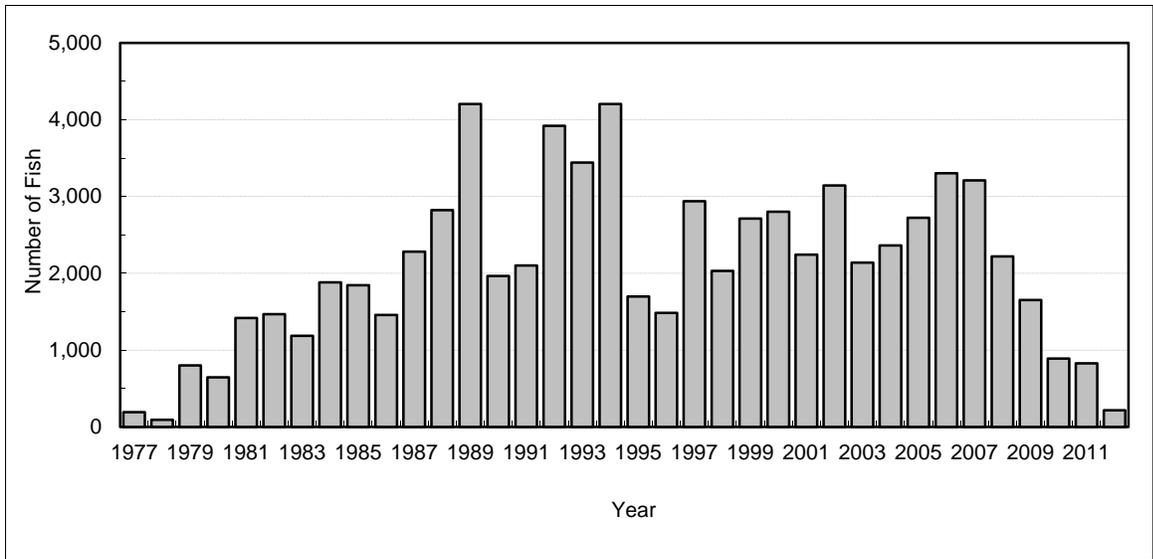


Figure 17.—Little Susitna River Chinook salmon harvest.

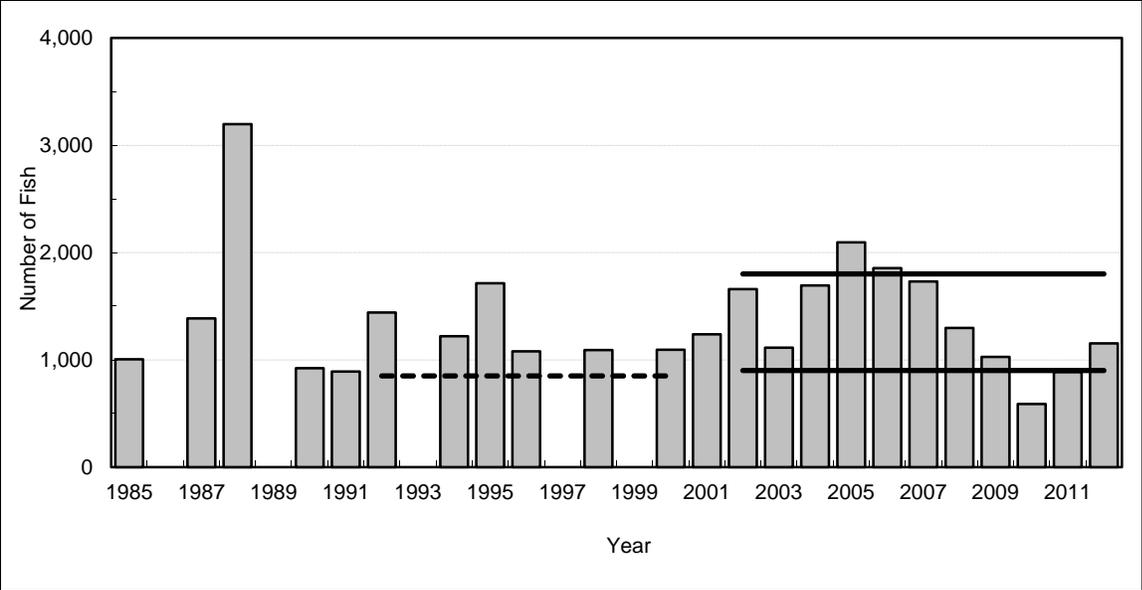


Figure 18.—Little Susitna River Chinook salmon escapement.

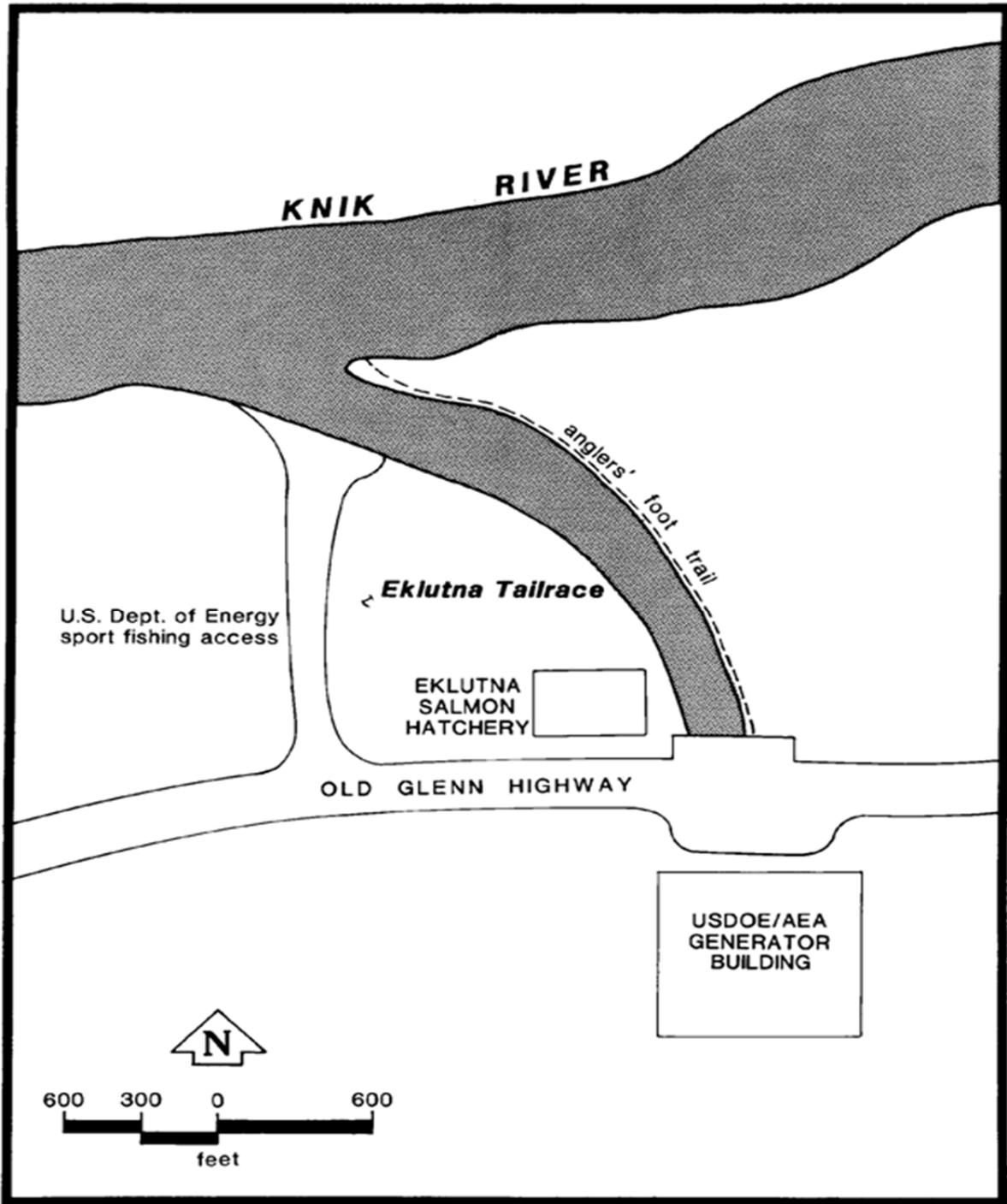


Figure 19.—Eklutna Power Plant tailrace.



Figure 20.—Upper Susitna River area (Talkeetna to Devils Canyon).

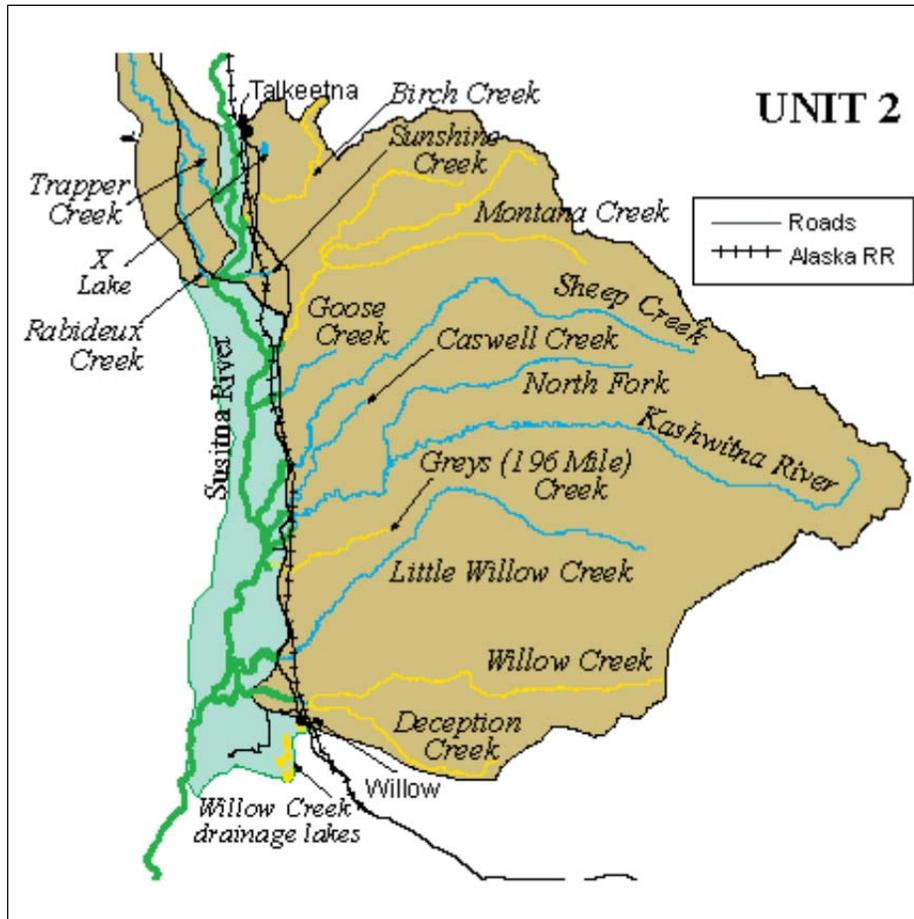


Figure 21.—Susitna River drainage from confluence with the Deshka River upstream to its confluence with the Talkeetna River.

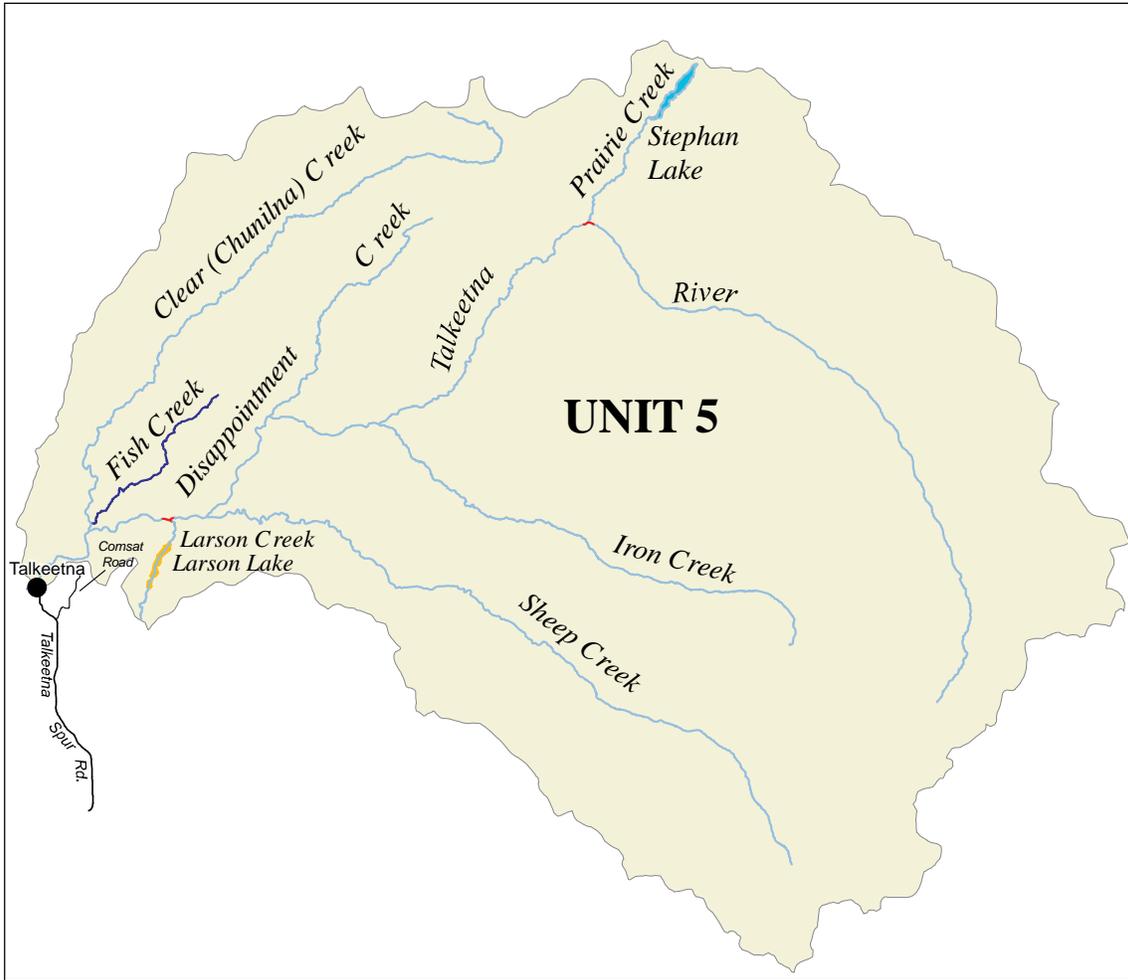


Figure 22.—Flowing waters, lakes and ponds of the Talkeetna River drainage.

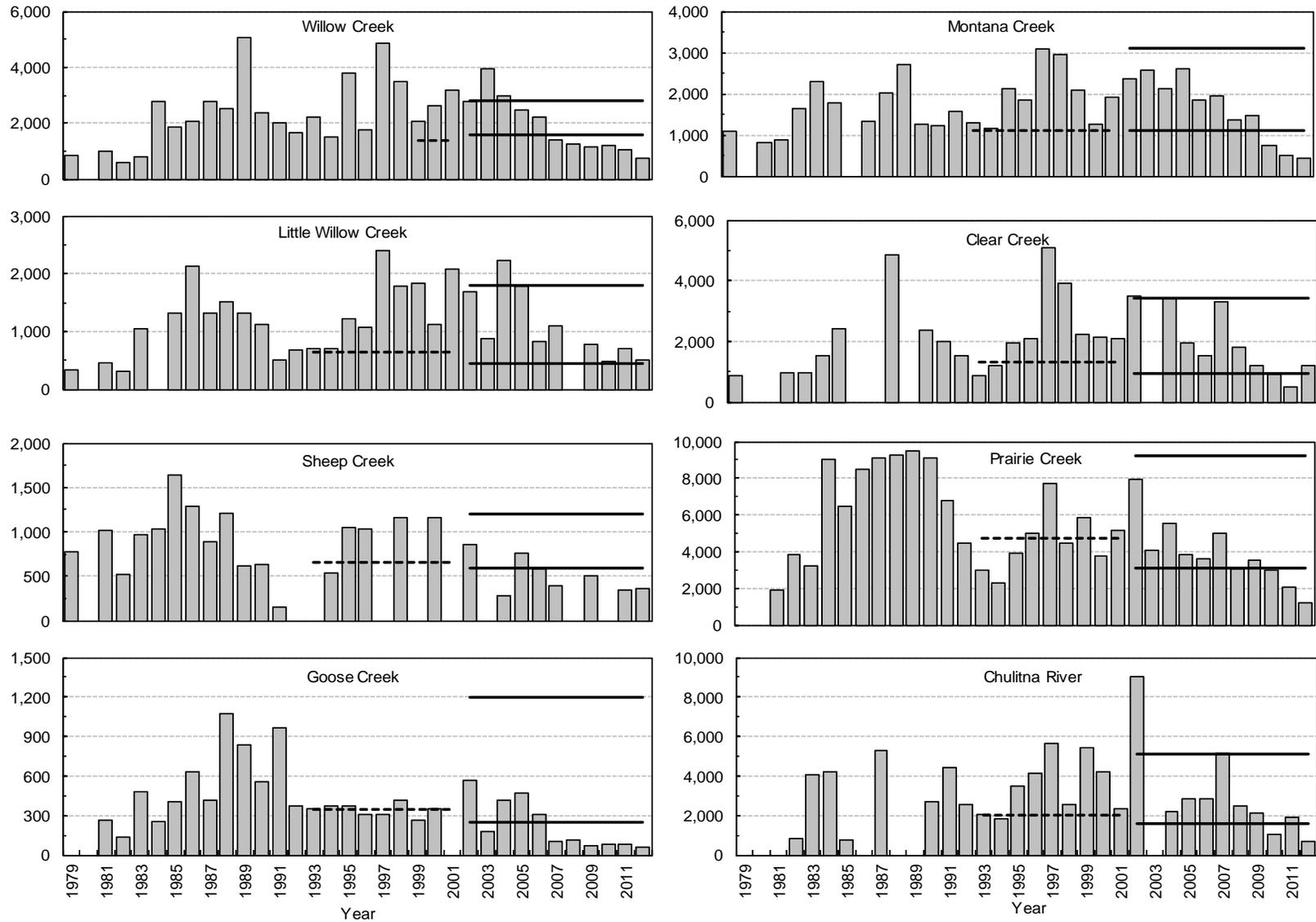


Figure 23.—Chinook salmon escapements at Eastside Susitna River tributaries and Chulitna River, 1979-2012. y-axis = Chinook salmon escapement (in number of fish). Dashed line = biological escapement goal. Solid lines = sustainable escapement goal range.

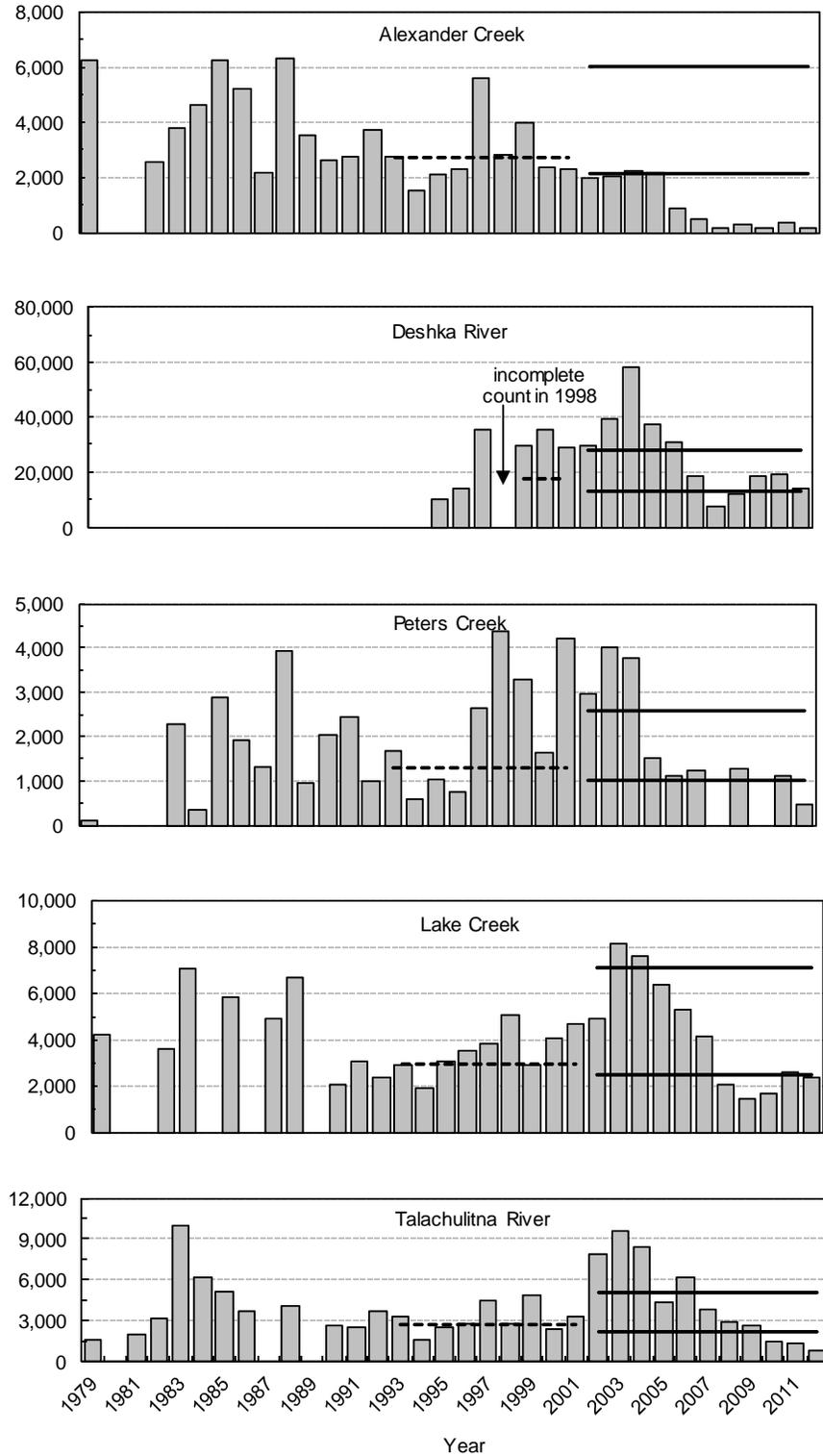


Figure 24.—Chinook salmon escapements at Westside Susitna River tributaries, 1979-2012. Y-axis = Chinook salmon escapement (in number of fish). Dashed line = biological escapement goal. Solid line = sustainable escapement goal.

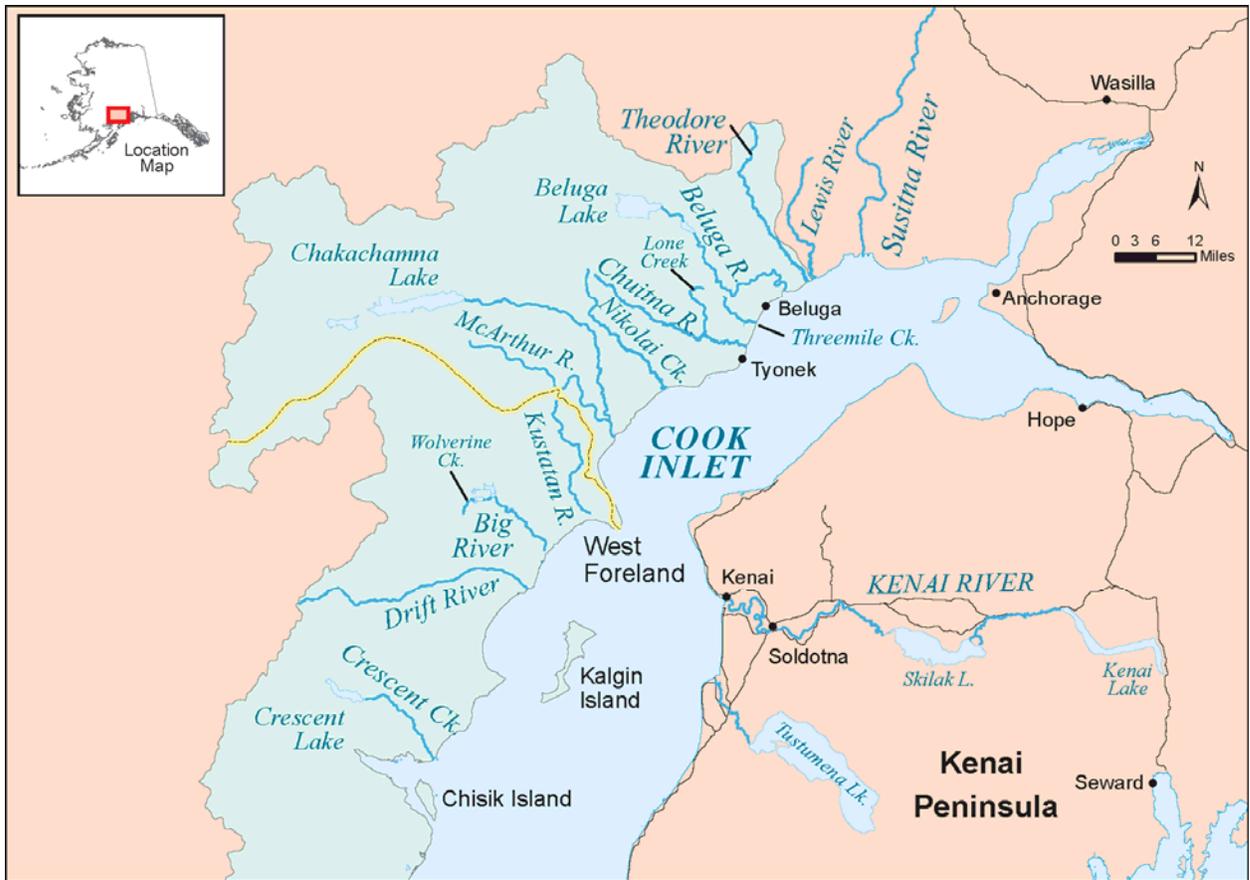


Figure 25.—West Cook Inlet Management Unit (WCIMU).

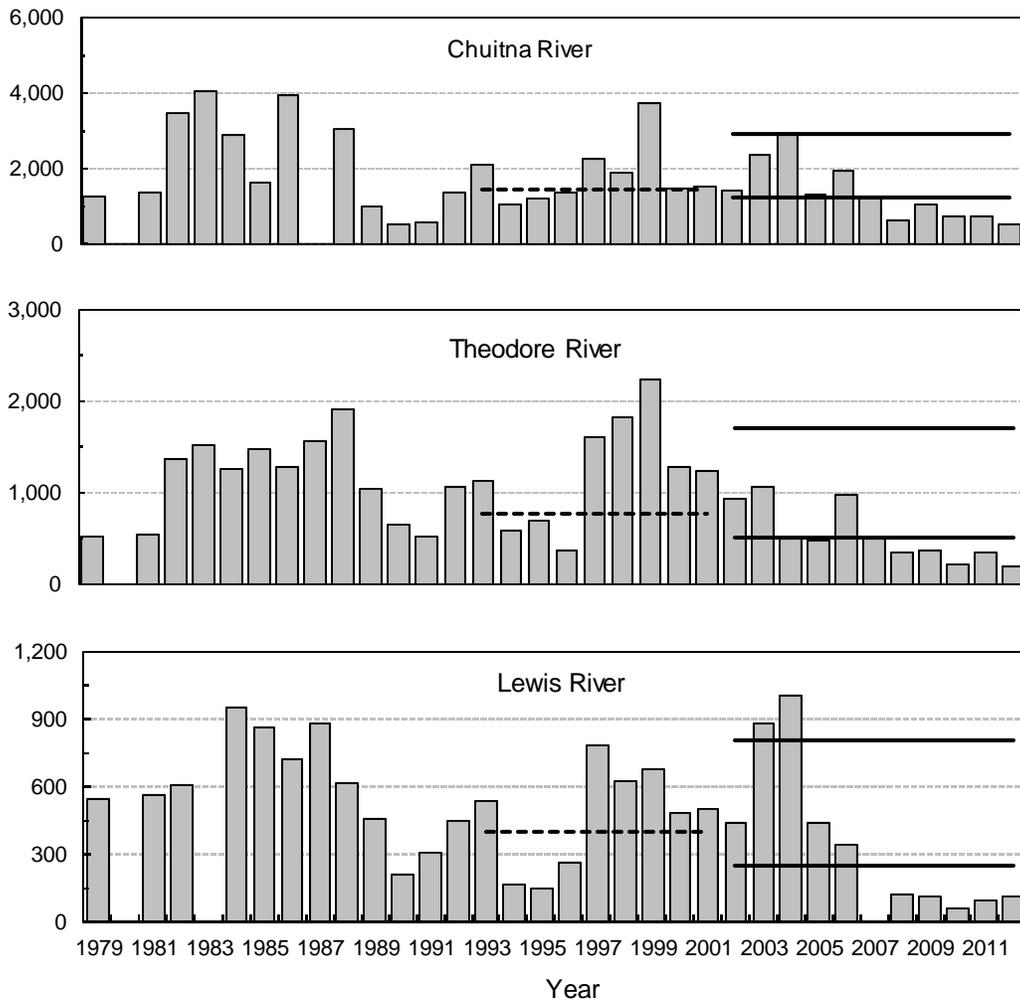
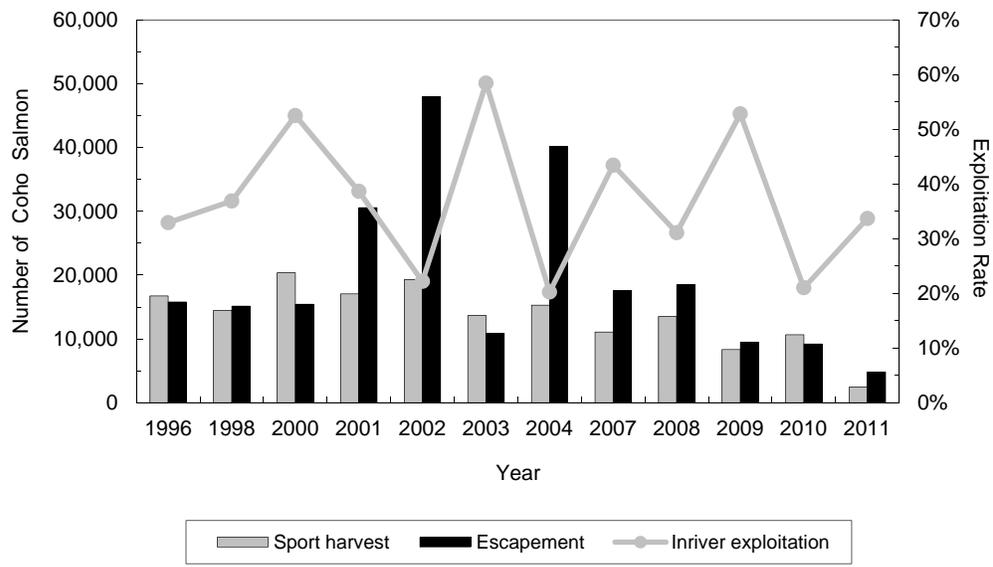
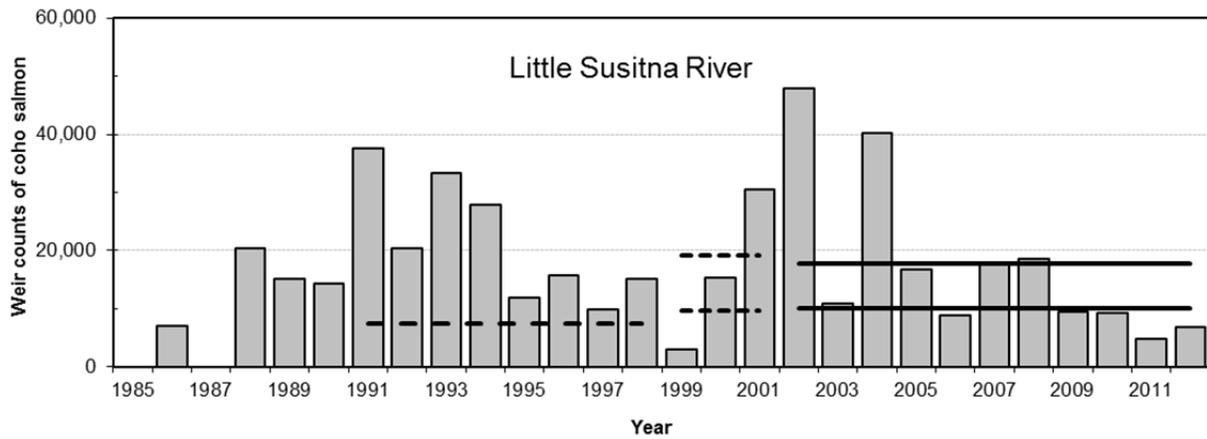


Figure 26.— Chinook salmon escapements at major West Cook Inlet freshwater drainages, 1979-2012. y-axis = Chinook salmon escapement (in number of fish). Dashed line = biological escapement goal. Solid line = sustainable escapement goal.

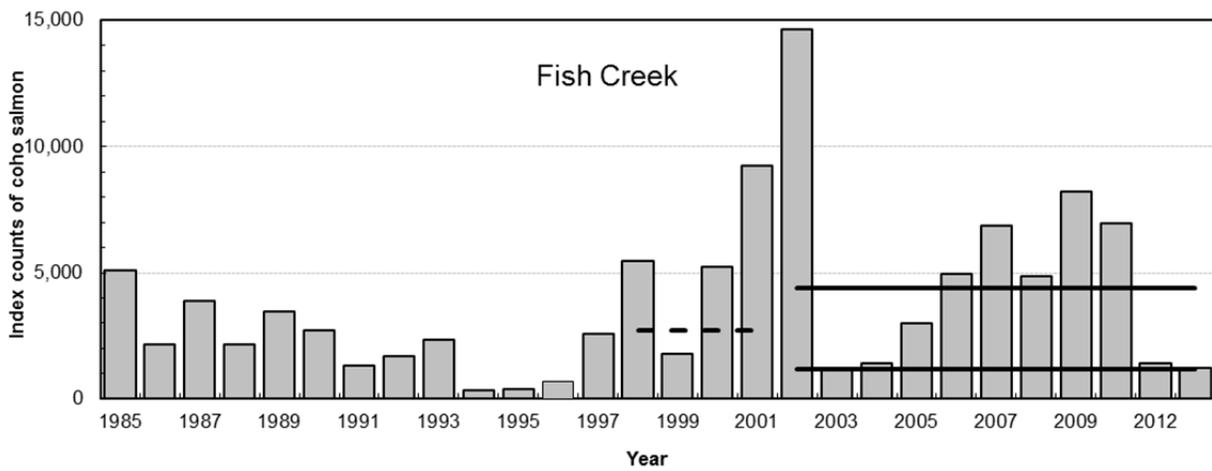


Note: Escapement counts in 1997 and 1999, 2005-06, and 2011 were incomplete due to flooding.

Figure 27.— Coho salmon harvest, escapement, and inriver exploitation from the Little Susitna River sport fishery for years counts were completed at a weir located at rm 71.



Note: No weir in 1985 and 1987; incomplete counts at Little Susitna River weir in 1986, 1997, 2005 - 2006, and 2012 due to flooding and weir submersion.



Note: Weir operated primarily for sockeye salmon; complete coho counts in 1990-1992, 1998-2003, 2009-2010, and 2012.

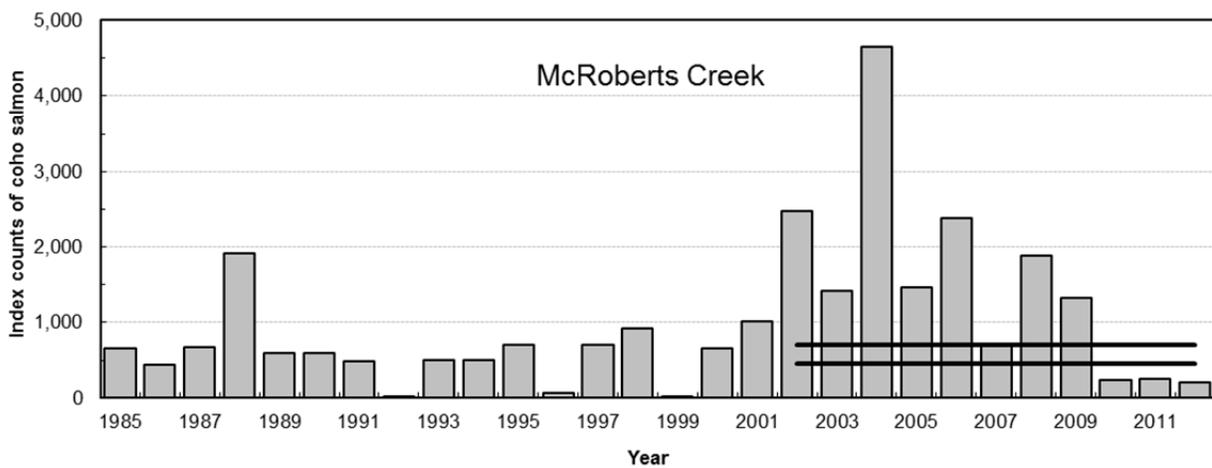


Figure 28.— Little Susitna River weir, Fish Creek weir, and McRoberts Creek index counts of coho salmon, 1985-2012. Dashed line = biological escapement goal. Solid lines = sustainable escapement goal range.

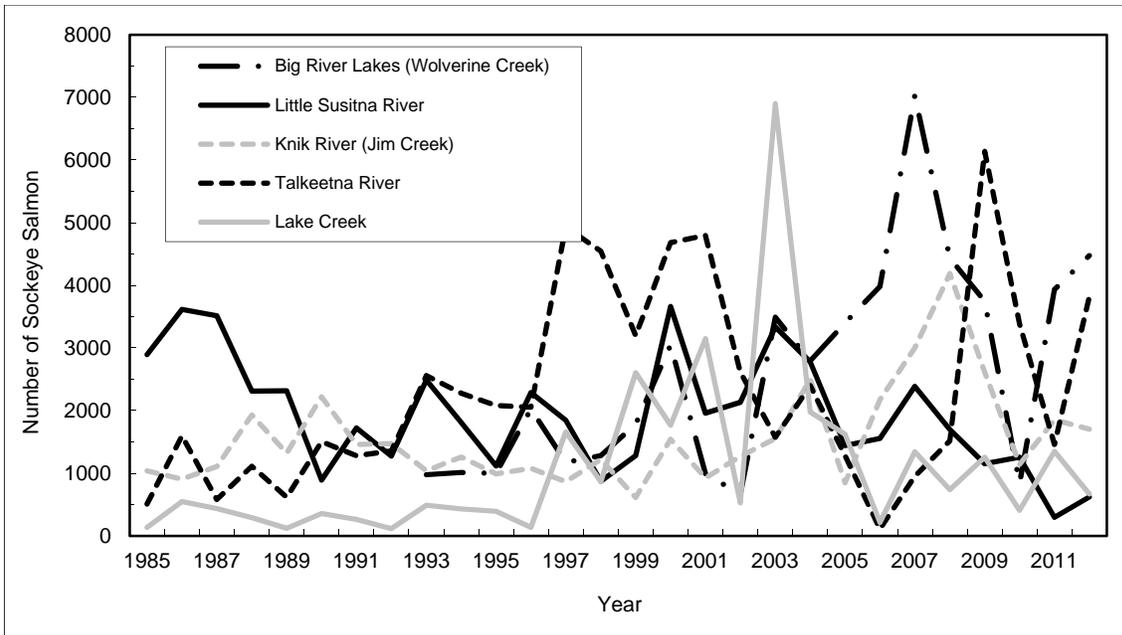


Figure 29.—Estimated harvest of Sockeye salmon from major fisheries within the NCIMA, 1985-2012.

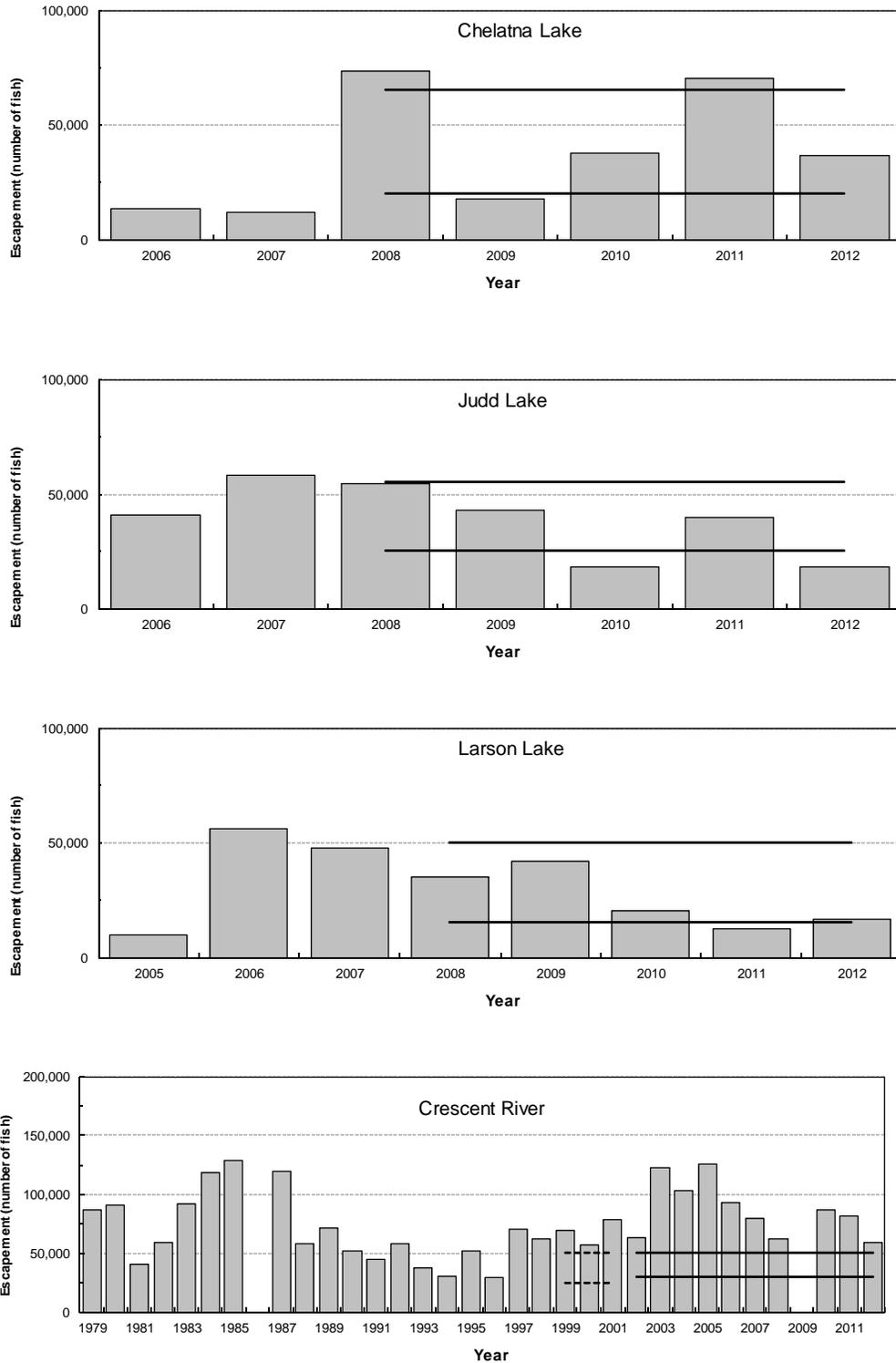


Figure 30.– Estimated sockeye salmon escapements from major fisheries in Northern Cook Inlet Management Area, 1979-2012. Dashed line(s) = old escapement goal or range. Solid lines = sustainable escapement goal range.

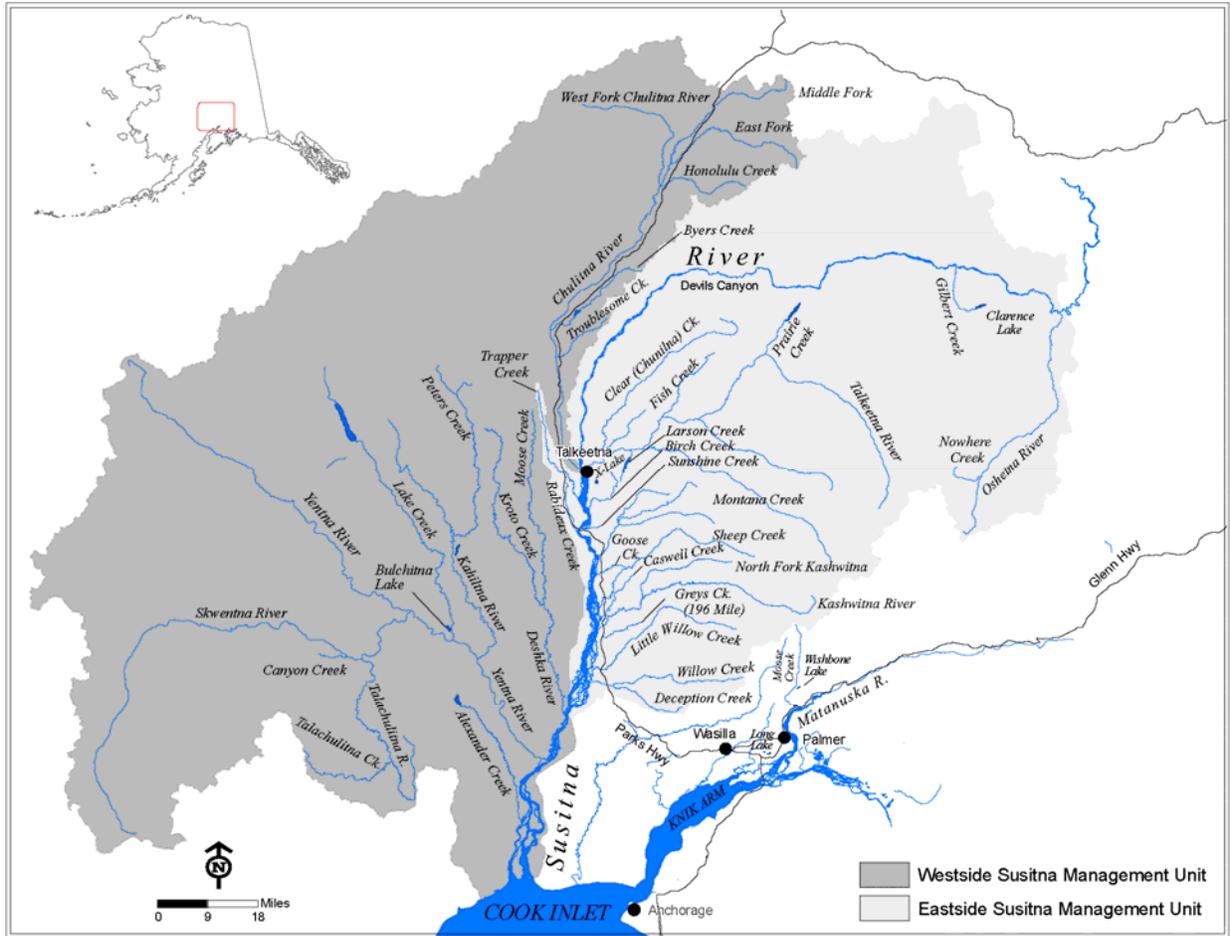


Figure 31.—Susitna River drainages.

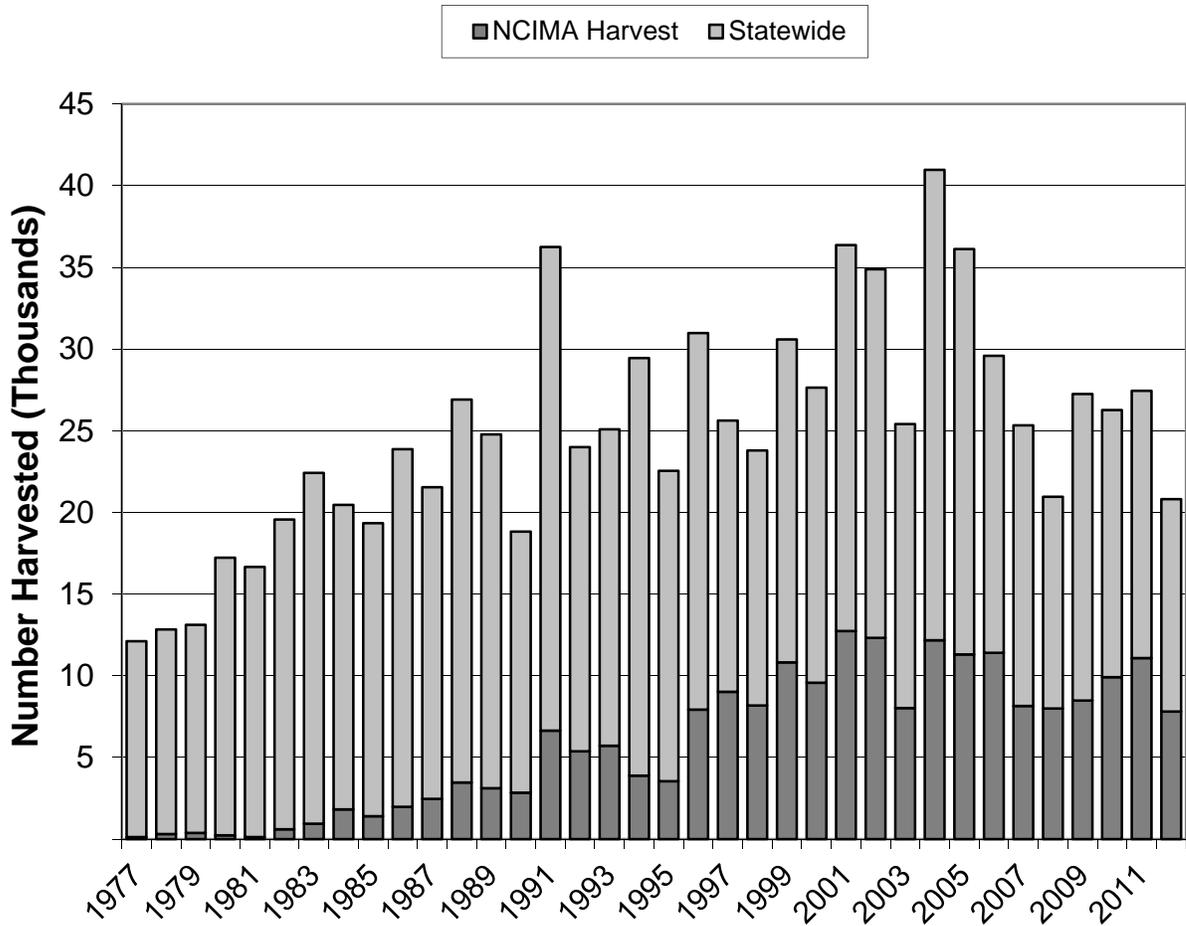


Figure 32.—Estimated northern pike harvest from the Northern Cook Inlet Management Area and statewide, 1977-2012.

APPENDIX A: FISH AND GAME ADVISORY COMMITTEE

Appendix A1.–Northern Cook Inlet Management Area, Fish and Game Advisory Committee members 2011–2012.

| Advisory Committee | Last | First | City |
|--------------------|------------|------------|---------------|
| Susitna Valley | Bakker | Melanie | Trapper Creek |
| | Gustafson | Gus | Talkeetna |
| | Kingery | Todd | Talkeetna |
| | Knowles | Bruce | Willow |
| | Logan | Tom | Big Lake |
| | Mayay | Israel | Talkeetna |
| | Meals | Robert | Talkeetna |
| | Runyan | Steve | Willow |
| | Seime | Craig | Wasilla |
| | Shanigan | Terrence | Willow |
| | Skipper | John | Palmer |
| Matanuska Valley | Bartelli | Stephen | Wasilla |
| | Beckman | Eric | Wasilla |
| | Buirge | Mike | Wasilla |
| | Couch | Andy | Palmer |
| | Crowley | Dane | Palmer |
| | Darilek | Stephen | Wasilla |
| | Dykstra | Gerrit | Wasilla |
| | Ehman | Jehnifer | Palmer |
| | Folsom | Bill | Palmer |
| | Grove | Melvin | Big Lake |
| | Jones | Tony | Wasilla |
| | Montgomery | Dan | Wasilla |
| | Payton | Israel | Wasilla |
| | Sager | Max | Wasilla |
| | Schachle | Ted | Willow |
| | Thompson | Kathy | Wasilla |
| | Tuttle | Jeff | Palmer |
| | Warta | Stephen | Palmer |
| | Westfall | Keith | Palmer |
| Young | David | Wasilla | |
| Mt. Yenlo | Brion | Tom | Skwentna |
| | Childs | Steve | Skwentna |
| | Childs | Bonnie Dee | Skwentna |
| | Ivey | James | Skwentna |
| | Johnson | Eric | Skwentna |
| | King | Sara | Skwentna |
| | Meisner | Bob | Wasilla |
| | Payton | Thomas | Skwentna |
| | Stanley | Barry | Willow |
| | Torkelson | Mark | Skwentna |

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Appendix A1.–Page 2 of 2.

| Advisory Committee | Last | First | City |
|--------------------|--------------|------------------|----------|
| Denali | Bulard | Keith and Armeda | Cantwell |
| | Burney | Jeff | Cantwell |
| | Caress | Marty | Cantwell |
| | Carlson | Gordon | Cantwell |
| | Gore | Marie | Cantwell |
| | Gore | Bruce | Cantwell |
| | Holum | Don | Cantwell |
| | Holum | Caleb | Cantwell |
| | Williams | Lance | Cantwell |
| Tyonek | Chickalusion | Chad | Tyonek |
| | Heilman | Larry | Beluga |
| | Jones | Randall | Tyonek |
| | Standifer | John | Tyonek |
| | Standifer | Arthur | Tyonek |
| | Standifer | Brandy | Tyonek |
| | Standifer | Randy | Tyonek |
| | Standifer | Jessica | Tyonek |
| | Standifer | Donald | Tyonek |
| Valka | Betty | Tyonek | |

**APPENDIX B: REGULATORY HISTORIES OF SELECTED
FISHERIES**

Sport fishing for Chinook salmon in NCIMA fresh waters was open from statehood (1959) through 1963. During 1964 through 1966, sport fishing for Chinook salmon in fresh waters was closed. During 1967 through 1970, Alexander Creek, Clear Creek, Deshka River, and Lake Creek were open in their entirety. This fishery operated over a 15-day season during the middle of June on a quota system that allotted harvest of 250 fish, over 20 inches in length. The season closed early if the quota was achieved. A 1-fish per day, 2-fish per season bag limit for fish over 20 inches in length was in place and a punch card was required to participate in the fishery. In 1971, the harvest quota was eliminated. During 1971 and 1972, in addition to the 15-day season in Alexander Creek, Deshka River, and Lake Creek, a more restrictive fishery was allowed (few days) in Clear Creek and portions of the Little Susitna River, Ship Creek (Anchorage), and Willow Creek; however, possession of a punch card was still required to participate in the fishery. In 1973, the area Chinook salmon fishery was closed to the harvest of Chinook salmon 20 inches or larger in length and remained so through 1978.

Selected Susitna River streams were reopened to sport fishing for Chinook salmon in 1979 after being closed for several years because of low stock abundance. Cautious incremental expansion has characterized the management of the area's Chinook salmon fisheries since they were reopened. From 1979 through 1982, sport fishing for Chinook salmon was permitted at Alexander Creek, Lake Creek, and at the Deshka River from the fourth Saturday in May through 6 July. These streams drain into the Susitna River from the west. The fishing season was similar for Clear Creek, a tributary of the Talkeetna River. In addition, three eastside tributaries of the Susitna River—Willow, Caswell, and Montana creeks—were open on Saturdays and Sundays only for four consecutive weekends commencing on the second Saturday in June. Harvest quotas, ranging from 200 to 7,000 Chinook salmon, governed these fisheries from 1979 through 1982. The Chuitna River, a coastal stream near Beluga, and the entire Yentna and Talkeetna rivers drainages were opened to Chinook salmon fishing in 1983. The opening date for Chinook salmon fisheries that provided continuous daily fishing was also changed to 1 January.

In 1984, the remaining coastal streams near Beluga and all waters draining into the westside of the Susitna River downstream from the Deshka River were opened to sport fishing for Chinook salmon. In 1986, portions of five road-accessible streams on the east side of the Susitna River opened to weekend-only fishing. These streams were Little Willow, Goose, Sunshine, Sheep, and Birch creeks.

In 1987, Monday was added to all former weekend-only fisheries that drain into the Susitna River from the east, expanding fishing opportunities for Chinook salmon. Saturday through Monday was open to fishing on the Susitna River and all flowing waters within one-quarter mile of the Susitna River (excluding the Kashwitna River) between the Deshka and Talkeetna rivers. These "corridor" fisheries were open for four continuous "weekends" similar to the previously mentioned Saturday through Monday fisheries. Fishing was permitted for Chinook salmon for the first time on the Susitna River drainage upstream from the Susitna River's confluence with the Talkeetna River to Devil's Canyon but excluding the Chulitna River drainage. Unbaited, single-hook, artificial lures were mandatory in this area. The season extended from 1 January 1 through 13 July. The season for all Susitna River and coastal fisheries that formerly closed on 6 July was extended to 13 July in 1987.

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In 1989, sport fishing for Chinook salmon was allowed within a one-quarter mile radius of the mouth of the Kashwitna River. That same year, fishing was permitted daily at Willow Creek between 1 January and the third Monday in June and on Saturday through Monday for two consecutive weeks starting the fourth Saturday in June.

In 1979, Bag and possession limits were one Chinook salmon 20 inches or over in length. The following year, bag and possession limits changed to two Chinook salmon 20 inches or over in length but only one Chinook salmon could be over 28 inches in length. In 1981, the bag limit was reduced to one Chinook salmon 20 inches or more in length and in possession. This limit remained in effect through 1985. A 5-fish (20 inches or more in length) per year limit governed all Cook Inlet Chinook salmon sport fisheries from 1979 through 1985. This limit applied collectively to Northern Cook Inlet fresh water, Cook Inlet salt water, and the Kenai Peninsula.

In 1986, daily bag and possession limits for the western drainages of the Susitna River were changed to two Chinook salmon, 16 inches or more in length, and four in possession; these limits remained through 1992. Only one fish daily and two in possession could be over 28 inches. Similar limits also applied to the West Cook Inlet coastal fisheries. Bag and possession limits for eastern drainages of the Susitna River in 1986 were one Chinook salmon, 16 inches or more in length, and two in possession. The seasonal limit was five Chinook salmon 16 inches or more in length. From 1979 through 1988, anglers were required to list their Chinook salmon harvest on nontransferable harvest records. The date and location of harvested Chinook salmon were recorded. From 1980 through 1982, a \$5.00 permit stamp was mandatory when fishing for Chinook salmon. The harvest record and yearly limit were eliminated for all NCI Chinook salmon fisheries in 1989.

During the November 1992 BOF meeting, several regulations were changed in the Susitna–West Cook Inlet Management Area. These regulations went into effect during the 1993 season. A seasonal limit of five Chinook salmon was established for all waters of Cook Inlet. Individuals or companies engaged in freshwater sport fish guiding were prohibited from participating or engaging in sport fishing while clients were present or within his or her control or responsibility during the Chinook salmon season except when guiding a client subject to the Americans with Disabilities Act.

During 1993, the Chinook salmon fishing season was reduced in length to end on 30 June in the West Cook Inlet area. The bag and possession limits were reduced to one daily and one in possession in areas open to the retention of Chinook salmon 16 inches or more in length.

Additionally, only unbaited, artificial lures could be used, Chinook salmon 16 inches or more in length could not be possessed or retained, and all other Chinook salmon caught had to be released immediately in the following areas of West Cook Inlet: 1) Chuitna River Drainage upstream of an ADF&G marker located adjacent to the old cable crossing, 2) Theodore River Drainage upstream of an ADF&G marker located approximately one mile upstream of the Beluga-Anchorage high voltage power lines, and 3) Lewis River Drainage upstream of an ADF&G marker located approximately one river mile upstream of the main Beluga haul road bridge.

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Action during the November 1992 BOF meeting also reduced the Chinook salmon bag and possession limits in the Susitna River drainage including all flowing waters draining into the west side of the Susitna River downstream of and including the Deshka River. The bag and possession limits for Chinook salmon over 16 inches were reduced to one daily and two in possession.

In addition to the BOF action, legislative action during June of 1992 established provisions that prohibited resident and nonresident anglers from fishing for Chinook salmon in Alaska without a king salmon stamp beginning in 1993.

Prior to the 1994 season, in anticipation of an inadequate Chinook salmon run to the Deshka River, an emergency order (EO) was issued reducing the Chinook salmon possession limit to one fish and eliminating the use of bait in the Deshka River from 1 May through 14 July. As the 1994 Chinook salmon fishing season progressed, it became apparent that weak runs were occurring in the entire Susitna River drainage and particularly in the Deshka River. In response to this, an EO was issued closing all waters of the Deshka River to sport fishing for Chinook salmon and prohibiting the use of bait in all waters of the Susitna River drainage downstream of the Deshka River, which flows into the Susitna River from the east, and the Alexander Creek drainage, all waters of the Yentna River drainage, all waters of the Talkeetna River drainage, and all waters of the Chulitna River drainage from 17 June through 13 July 1994.

During its October 1994 work session, BOF chose to delegate to ADF&G the authority to change regulations for the 1995 fishing season. These regulation changes were as follows:

1. The Deshka River and Prairie Creek were closed to fishing for Chinook salmon.
2. Alexander Creek above the confluence of Trail Creek was closed to fishing for Chinook salmon.
3. The bag and possession limits in the Susitna River and Little Susitna River drainages were reduced to one Chinook salmon over 16 inches in length.
4. The use of bait throughout the NCIMA was prohibited (excluding the Anchorage Management Unit).
5. Fishing in the NCIMA was allowed only between the hours of 6:00 AM and 11:00 PM from 15 May through 13 July. This time restriction did not apply to that portion of the Susitna River drainage opened to weekend-only fishing (e.g. between, but not including, the Deshka River and the Talkeetna River) and to the Anchorage Management Unit.
6. The first opening of the Northern District commercial Chinook salmon fishery occurred by EO. Additional opening of this fishery was dependent upon inseason indications of run strength.

The only new regulation for the 1996 season was the closure of the Lewis River to Chinook salmon fishing, including catch-and-release for Chinook salmon.

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BOF convened in Anchorage, Alaska during 11–17 November 1996. A brief summary of the regulatory changes adopted by BOF that affected the Susitna–West Cook Inlet Area Chinook (king) salmon fisheries follows.

5 AAC 21.366. Northern District King Salmon Management Plan

- To fulfill changes to the Upper Cook Inlet King Salmon Management Plan, as adopted by the Board of Fisheries, the Department of Fish and Game shall manage the Northern District commercial king salmon fishery as follows:
 1. (3) The harvest shall not exceed 12,500 king salmon.
 2. (8) The season closes on June 24, unless closed earlier by emergency order.
 3. (9) The number of regular periods shall be determined by the department [ADF&G] based on preseason expectations of king salmon run strength.
 4. (10) The area from 1 mile south of the Theodore River to the Susitna River is closed to fishing; provisions of this paragraph do not apply after December 31, 1998.
 5. (11) If at least 90% of the biological escapement goal for the Theodore River (BEG = 750) or Chuitna River (BEG = 1,400) is not met during the 1997 fishing season, the area from 1 mile south of the Chuitna River to the Susitna River will be closed to commercial fishing during the 1998 fishing season; the provisions of this paragraph do not apply after December 31, 1998.
 6. (12) In addition to (11) above, if at least 90% of the biological escapement goal for the Chuitna River has not been met during the 1997 fishing season, the area from 1 mile south of the Chuitna River to the Susitna River will be closed to sport fishing for king salmon during the 1998 fishing season; the provisions of this paragraph do not apply after December 31, 1998.

5 AAC 61.010. Fishing Seasons:

- The Alexander Creek drainage is open to the retention (harvest) of king salmon from January 1 through June 30 downstream from an ADF&G regulatory marker at Granite Creek.

5 AAC 61.020. Bag Limits, Possession Limits, and Size Limits:

- In all waters of Alexander Creek drainage between an ADF&G regulatory marker located at Granite Creek, upstream to an ADF&G regulatory marker located 400 yards upstream of Trail Creek, king salmon 16 inches or more in length may not be possessed or retained. All king salmon caught must be released immediately.

5 AAC 61.035. Methods and Means:

- Only unbaited, single-hook, artificial lures may be used from January 1 through June 30 in all waters of the Alexander Creek drainage between an ADF&G regulatory marker located at Granite Creek to an ADF&G regulatory marker located 400 yards upstream of Trail Creek.

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5 AAC 61.050. Waters Closed to Sport Fishing:

1. Peters Creek (Susitna River drainage) is closed to sport fishing for king salmon upstream from an ADF&G regulatory marker, located approximately 1 mile upstream from its confluence with the Kahiltna River.
2. The Theodore River is closed to sport fishing for king salmon. The provisions of this paragraph do not apply after December 31, 1998.

5 AAC 61.020. Bag Limits, Possession Limits, and Size Limits:

1. In all waters of the Susitna River drainage between the confluence of the Deshka River and the confluence of the Talkeetna River: after taking a king salmon 16 inches or more in length, a person may not fish for any species of fish in any water open to king salmon fishing during that same day.
2. In the Little Susitna River from its mouth to the Parks Highway bridge at Houston: after taking a king salmon 16 inches or more in length, a person may not fish for any species of fish in any water open to king salmon fishing during that same day.
3. In all waters of the Susitna–West Cook Inlet Management Area, excluding the Susitna River between its confluence with the Deshka River and its confluence with the Talkeetna River: after taking a king salmon 16 inches or more in length, a person may not fish for king salmon during that same day.

5 AAC 61.020. Bag Limits, Possession Limits, and Size Limits:

- The bag and possession limits of king salmon 16 inches or more in length taken from the Little Susitna River drainage are 1 fish per day and in possession.

During 1997, the Deshka River was open to Chinook salmon fishing on 21 June through 13 July. Fishing was limited to the lower two miles of river and all Chinook salmon regulations applying to the Susitna River from its mouth to its confluence with the Deshka River were in effect for the Deshka River.

In 1998, the Deshka River was open to Chinook salmon fishing from its confluence with the Susitna River upstream five miles to an ADF&G marker. The seasonal bag limit for Chinook salmon over 16 inches in length and from the Deshka River was set at two. In addition, all Chinook salmon regulations applying to the Susitna River from its mouth to its confluence with the Deshka River were in effect for the Deshka River. Inseason EOs that affected Chinook salmon fishing included opening Willow Creek from 20 to 22 June to correct an oversight in the regulations and adding one Friday to allow fishing for Chinook salmon in the Susitna River between the Deshka River and the Talkeetna River (excluding both rivers).

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The BOF made the following changes for the 1999 season. The Deshka River was open from 1 January to 13 July to Chinook salmon fishing from its mouth upstream to Chijuk Creek, a distance of approximately 17 river miles. Other area regulations applied: one fish per day bag and possession limits, a 5-fish seasonal limit, and a requirement that any angler harvesting a Chinook salmon must quit fishing for Chinook salmon the remainder of the day. Additionally, fishing was allowed only between the hours of 6:00 AM and 11:00 PM; no bait was allowed and guides could not fish while guiding clients.

For the 1999 season, the area open for retention of Chinook salmon on Alexander Creek was extended from its mouth upstream to Trail Creek. This provided anglers with an additional 11 miles of stream to harvest Chinook salmon that was not available during the 1997 and 1998 seasons.

The Theodore River was opened to catch-and-release fishing for Chinook salmon from 1 January through 30 June and only single hook artificial lures were allowed. Other West Cook Inlet Area regulations applied as follows: fishing was allowed only between the hours of 6:00 AM to 11:00 PM, bait was prohibited, and guides could not fish while guiding.

There were increased fishing opportunities for the road-accessible Parks Highway streams (eastside Susitna River tributaries) during the early part of June. The Parks Highway streams (eastside Susitna River tributaries) were open to Chinook salmon fishing from 1 January through the third Monday in June and for the next two consecutive 3-day weekends. This regulation was consistent with that on Willow Creek.

On the Little Susitna River, anglers were allowed to use treble hooks year-round downstream of the Parks Highway Bridge. Existing bait restrictions were modified to allow the use of bait during the month of September.

The area open to Chinook salmon fishing on the Kashwitna River was extended from its mouth upstream to the Parks Highway Bridge, a distance of two miles. The Kashwitna River, a Parks Highway stream, was regulated under the new season regulation implemented for the Parks Highway streams.

In all waters of the Westside Susitna Management Unit and the West Cook Inlet Management Unit (excluding waters between the Deshka River and the Talkeetna River mouths), anglers were allowed to continue to fish for Chinook salmon (catch-and-release only) once they had harvested their limit. Alexander Creek, Lake Creek, Deshka River, Fish Lake Creek, and Clear Creek were excluded from this regulation; in these streams, anglers were required to quit fishing for Chinook salmon for the day once they harvested their limit.

Willow, Little Willow, Sheep, and Montana creeks were open by EO to Chinook salmon fishing for an additional weekend from 10 July through 12 July 1999.

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The 2000 season began with no regulation changes from 1999. When it was determined that the Deshka River was experiencing an exceptionally large run Chinook salmon, an EO was issued that allowed the use of bait in the first 17 miles of the Deshka River and within a one-quarter-mile radius of the mouth of the Deshka River with the Susitna River from 8 June through 13 July 2000. Two additional EOs were issued in 2000: one opened Willow, Little Willow, Sheep, and Montana creeks to Chinook salmon fishing for an additional day on 4 July 2000, and the other opened East Fork Chulitna River, Willow, Little Willow, Sheep, and Montana creeks to Chinook salmon fishing for an additional 3-day weekend from 8 July through 10 July 2000.

During the January 2001 BOF meeting a "jack" king salmon was defined as any king (Chinook salmon) 20 inches or less in length statewide. In all fresh waters open to Chinook salmon fishing, the bag and possession limit for "jacks" is 10. These limits are in addition to any limits for Chinook salmon over 20 inches in length and do not count against annual or seasonal limits. This new definition increased the length requirement for Chinook salmon that must be recorded for the five fish seasonal limit from 16 inches to 20 inches.

E.O. No. 2-KS-2-15-01 extended the Chinook salmon season in the Susitna River drainage upstream from its confluence with the Deshka River to its confluence with the Talkeetna River including Susitna River tributaries Willow Creek to Trapper Creek and the East Fork of the Chulitna River (including the first one-quarter mile of Honolulu Creek only). These waters which were scheduled to close on Monday, 2 July were opened through Wednesday, 4 July at 12:00 midnight.

In June of 2001 it was determined that the Deshka River was experiencing an exceptional return of Chinook salmon. An EO was issued that allowed the use of bait in the first 17 miles of the Deshka River and within a one-quarter-mile radius of the mouth of the Deshka River with the Susitna River, 12 June through 13 July. Three additional EOs were issued in 2001. One extended Chinook salmon fishing on the Chulitna River downstream of the cable crossing 1 July through 5 July. Another opened Willow Creek to Chinook salmon fishing 29 June at 12:01 AM, adding one additional day of fishing. The last EO extended the Chinook salmon season in the Susitna River drainage upstream from its confluence with the Deshka River to its confluence with the Talkeetna River including Susitna River tributaries Willow Creek to Trapper Creek and the East Fork of the Chulitna River (including the first one-quarter mile of Honolulu Creek only). These waters, which were scheduled to close on Monday, 2 July, were opened through Wednesday, 4 July at 12:00 midnight.

A BOF meeting was held in February 2002 resulting in the following Chinook salmon regulations changes:

1. Allow catch-and-release fishing for Chinook salmon in the East Fork of the Chulitna River 1 January through 13 July. Only one single-hook, unbaited artificial lure may be used 1 January through 13 July.
2. Increase possession limit to two Chinook salmon for West Susitna River tributaries (excluding Alexander Creek).

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3. In the Northern District King Salmon Management Plan: The commercial setnet fishery will open on the first Monday on or after 25 May and close 24 June. The number of commercial periods will depend upon expected northern Cook Inlet Chinook salmon run strengths and there shall be no more than three commercial openings targeting Chinook salmon. The area from an ADF&G marker located 1 mile south of the Theodore River to the Susitna River is open to fishing in the second regular period only. If the Theodore, Lewis or Ivan rivers are closed to sport fishing, the area from an ADF&G regulatory marker located 1 mile south of the Theodore River to the Susitna River is closed to commercial Chinook salmon fishing for the remainder of the directed Chinook salmon fishery. If the Deshka River is closed to sport fishing, the commercial Chinook salmon fishery throughout the Northern District is closed for the remainder of the directed Chinook salmon fishery. If the Chuitna River is closed to sport fishing, the area from an ADF&G marker located 1 mile south of the Chuitna River to the Susitna River is closed to commercial Chinook salmon fishing for the remainder of the directed Chinook salmon fishery.
4. Allow a catch-and-release fishery in the entire Theodore and Lewis rivers. No bait, single hook only.

These regulations were not signed into law prior to the start of the 2002 season. Because of this delay the following EOs were issued to allow the new regulations to be in effect during the beginning of the fishing season:

1. Increased the possession limit to two Chinook salmon in all Westside Susitna River tributaries except Alexander Creek.
2. Opened the entire Theodore and Lewis rivers to catch-and-release for Chinook salmon through 30 June. Single hook, no bait.
3. Allowed the use of bait in the first 17 miles of the Deshka River and within a one-quarter mile radius of the mouth of the Deshka River with the Susitna River, 8 June through 13 July 2002.

All regulations became effective midway through the season. As in past years, an EO was issued which extended the Chinook salmon season in Willow, Sheep, and Montana creeks three days, 5–7 July from 6:00 AM to 11:00 PM.

In 2003 there were no new regulations. As in past years, an EO was issued which extended the Chinook salmon season in Willow, Sheep, and Montana creeks three days, 4–6 July from 6:00 AM to 11:00 PM. In mid-June when an exceptional return was realized for Deshka River, an EO was issued to increase the bag and possession limit of Chinook salmon greater than 20 inches in the Deshka River from one per day and two in possession to two per day and four in possession.

During 2004, two EO's were issued to liberalize the Deshka River Chinook salmon fishery. The first EO allowed use of bait in the first 17 miles of the river 28 May through 13 July. The second EO increased the daily bag and possession limits from one per day and two in possession to two per day and four in possession on that portion of river open to Chinook salmon fishing (first 17 miles). An EO was issued to open the Chinook salmon fishery at Eklutna Tailrace on 15 April.

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A BOF meeting was held January 2005. Sport fish regulatory changes included the following:

1. Anglers were allowed to use bait earlier in the Deshka River commencing 15 May.
2. The Parks Highway streams were opened for an additional 3-day weekend for Chinook salmon fishing. For 2005, the Parks Highway streams were open from 1 January to 20 June and on 25–27 June, 2–4 July, and 9–11 July.
3. The area open to Chinook salmon fishing on the Kashwitna River was increased by approximately one mile, from the Parks Highway Bridge to the Alaska Railroad Bridge.
4. Anglers may no longer fish for Chinook salmon 20 inches or less in waters closed to Chinook salmon fishing.
5. Eklutna Tailrace and all waters within a one-half mile radius of its confluence with the Knik River were opened to fishing for Chinook salmon from 1 January through 31 December. Once an angler retains a bag limit of Chinook salmon 20 inches or longer, they may not fish in any water open to Chinook salmon fishing on that same day.

Commercial fish regulatory changes included the following:

1. The Northern District King Salmon Management Plan was altered by limiting fishing periods to a maximum of three and increasing fishing time per period from six hours to 12 hours. The gear restriction of two nets from 1 August to 10 August was removed.
2. The Big River Sockeye Salmon Management Plan was amended to allow fishing in a portion of the Kalgin Island Subdistrict along the western shore from Light Point (lat 60° 29.00'N, lon 151° 50.50'W) to the Kalgin Island Light on the southern end of the island at lat 60° 20.80'N, lon 152° 05.09'W. Note: this fishery is closed if 1,000 Chinook salmon are harvested.

Two EO's were issued inseason to liberalize the Deshka River Chinook salmon fishery:

1. On 27 May, the daily bag and possession limit for Chinook salmon was increased from one per day, two in possession to two per day, four in possession. Fishing time was increased to 24 hours per day.
2. The fishery was extended from 14 July through 31 July.

In 2006, an EO increased the bag limit and fishing time on the Deshka River, effective on 26 May. The daily bag and possession limit was increased to two per day, four in possession and fishing time was increased to 24 hours per day.

On 25 May 2007, an EO increased the bag limit and fishing time on the Deshka River. The daily bag and possession limit was increased to two per day, four in possession and fishing time was increased to 24 hours per day.

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In 2008, a BOF meeting held in February resulted in the following Chinook salmon regulation changes:

- 1) Alexander Creek was closed to Chinook salmon fishing.
- 2) The area open to Chinook salmon fishing at the Eklutna Tailrace was expanded. In addition to the Tailrace and waters within a one-half mile radius of the mouth, anglers would be allowed to fish downstream to an ADF&G marker located approximately two miles downstream of the Tailrace mouth.

In June 2008, two EOs were issued to decrease the number of Chinook salmon harvested on the Deshka River. The first EO, issued on 12 June, disallowed the use of bait beginning 6:00 AM, 14 June. The second EO, issued on 19 June, closed the fishery for the remainder of the season. The last two regularly scheduled commercial periods on 23 and 26 June were closed as a result of closure of the Deshka River sport fishery.

In 2009, no new regulations were issued.

In June, as in 2008, two EOs were issued decreasing the harvest of Chinook salmon in the Deshka River. The first, issued 20 April, disallowed the use of bait and decreased retention by only allowing Chinook salmon to be retained on Saturdays, Sundays, and Mondays from 15 May through 13 July. Any Chinook salmon caught Tuesday through Friday could not be removed from the water and was to be released immediately. The second, issued on 11 June, closed the fishery for the remainder of the season. On 20 May, the BOF enacted an emergency regulation to reduce the fishing times in the Northern District setnet fishery from twelve to six hours by allowing commercial salmon fishing to occur only between 7:00 AM and 1:00 PM. On 11 June, the Northern District was closed to the harvest of Chinook salmon for the remainder of the fishing periods scheduled for 2009 due to the closure of the Deshka Chinook salmon sport fishery.

With concern about the low number of Chinook salmon returning to the area, another EO took effect 3 July, closing the Parks Highway streams of the Susitna River drainage and the Little Susitna River for the final three-day weekend to the taking of Chinook salmon from Friday, 3 July through the remainder of the season.

An EO issued on 1 July clarified that Areas in Unit 2 closed to Chinook salmon fishing throughout the year (upstream of Parks Highway bridges, ADF&G markers, etc.) were not affected by the 11 June EO and that anglers could continue to fish for trout and other species in those streams.

In 2010, no new regulations were issued.

Due to failure to meet escapement goals from 2007 to 2009, an EO was issued on 4 May that closed the Chinook salmon sport fishery, including catch-and-release, in the Theodore, Lewis, and Chuitna rivers at 6:00 AM on 15 May for the remainder of the season. The areas affected included all marine waters within a one-half mile radius of the mouths of these rivers. As a result, the Northern District setnet fishery was closed per the Northern District Chinook Salmon Management Plan from an ADF&G regulatory marker located one mile south of the Chuitna River to the Susitna River for the entire directed Chinook salmon fishery.

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On 9 June, an EO prohibited the use of bait in the lower portion of the Deshka River effective 6:00 AM, 12 June. This EO was rescinded on 19 June when it was projected the escapement goal would indeed be met. A step-down restriction followed in the Northern District setnet fishery with the third (14 June) of four regularly scheduled periods being restricted from 12 to 6 hours.

On 24 June, an EO reduced the annual limit for Chinook salmon in the Yentna River Drainage from five fish to one fish beginning 26 June. Any Chinook salmon recorded before 26 June on the harvest portion of an Alaska sport fishing license or harvest record card would not count towards the one Chinook salmon that could be harvested after 25 June.

On 30 June, an EO was issued that closed the Chinook salmon sport fishery on Parks Highway streams of the Susitna River drainage for the remaining two weekends and the Little Susitna River effective 11:00 PM on 2 July and continuing through the remainder of the season. Waters normally open to Chinook salmon fishing in Unit 2 were also closed to all sport fishing. The Little Susitna River downstream from the Parks Highway Bridge and waters normally closed to Chinook salmon fishing throughout the year in Unit 2 remained open to fishing for trout and other species.

A separate EO, also issued on 30 June, reduced the annual Chinook salmon limit on the Talkeetna and Chulitna rivers drainages from five fish to one fish effective at 11:00 PM, 2 July. Chinook salmon recorded before 3 July on the harvest portion of an Alaska sport fishing license or harvest record card would not count towards the one Chinook salmon that could be harvested after 2 July.

In 2011, a BOF meeting held in February resulted in the following Chinook salmon regulation changes:

1. The Chuitna, Theodore, Lewis, and Beluga rivers are closed to sport fishing for Chinook salmon.
2. Goose Creek within Unit 2 of the Susitna River is closed to sport fishing for Chinook salmon.
3. On the Parks Highway streams within Unit 2 of the Susitna River that are open to Chinook salmon fishing, the following regulations were made:
 - a. The fishing season was shortened. Fishing is open until the third Monday in June and for the following two consecutive three-day weekends (Saturday–Monday). For 2011, the season is from 1 January to 20 June, 25 June to 27 June, and 2 July to 4 July.
 - b. From 15 May to 13 July, fishing for all species is allowed only from 6 AM to 11 PM.
 - c. These new regulations apply to Willow, Little Willow, Grays, Caswell, Sheep, Montana, Sunshine, and Rabideux creeks, and the Kashwitna River.
4. On a portion of the Susitna River at the farthest downstream mouth of Willow Creek, also known as the “first mouth” of Willow Creek, from 1 May to 13 July, fishing from a boat for any species is prohibited. The area closed to fishing from a boat is from a marker located on the upstream bank, downstream approximately 300 yards to another marker.
5. On the Talachulitna River, anglers retaining a Chinook salmon 20 inches or longer must stop fishing for Chinook salmon within a one-mile radius of the mouth of the Talachulitna River for the remainder of the day.

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6. Fishing for any species is closed within a one-half mile radius of the mouth of Alexander Creek from 1 May to 13 July.
7. Established stock of concern status for Chinook salmon stocks in three areas: 1) Chuitna, Theodore, and Lewis rivers within West Cook Inlet (WCI); 2) Goose and Willow creeks (Parks Highway streams) of the Susitna River; and 3) Alexander Creek of the lower Susitna River.
8. The area closed to commercial fishing was extended from 1 mile to about 4.8 miles south of the Chuitna River.

In 2012, no new regulations were issued.

On 1 May, two EOs were issued reducing the harvest of Chinook salmon in the Susitna River drainage and the Little Susitna River drainage. One EO reduced the annual limit for Chinook salmon 20 inches or longer from five fish to two fish and limited sport fishing gear to one unbaited, single-hook, artificial lure when fishing in Units 1–6 of the Susitna River drainage from 15 May through 13 July. This EO further prohibited the harvest of Chinook salmon in Unit 2 of the Susitna River drainage after 11 June through 13 July. The second EO reduced the annual limit for Chinook salmon 20 inches or longer from five fish to two fish and limited sport fishing gear to one unbaited, single-hook, artificial lure when fishing in the Little Susitna River drainage from 15 May through 13 July. In addition, retention of Chinook salmon was also prohibited on Tuesdays, Wednesdays, and Thursdays beginning 15 May.

On 13 June, an EO was issued closing the Little Susitna River in the Knik Arm Drainage Area to sport fishing for Chinook salmon, including catch-and-release fishing, from 15 June through 13 July.

On 18 June, an EO was issued which prohibited the use of bait in the Dëshka River, and prohibited sport fishing for Chinook salmon in waters of the Dëshka River upstream of the weir, located at river mile 7 from 20 June through 13 July.

On 22 June, an EO was issued closing the Susitna River drainage to sport fishing for Chinook salmon and limited sport fishing gear to one unbaited, single-hook, artificial lure when fishing in Units 1–6 of the Susitna River drainage in waters normally open to Chinook salmon fishing from 25 June to 13 July.

Appendix B2.–Deshka River Chinook salmon regulatory changes, 1977–2012.

| Year | Fishery dates | Area & time restrictions | Method & gear restrictions | Bag & possession limits | Seasonal NCI limit | Other requirements |
|------|-----------------------|----------------------------------|---|---|--------------------|---|
| 1977 | closed to adults | | | 20" or less only | | |
| 1978 | closed to adults | | | 20" or less only | | |
| 1979 | 4th Sat. in May–6 Jul | Mouth to Laub's Homestead marker | | 1/day over 20" & 1 possession 2/day over 20", only 1 over 28" & 2 possession | 5 over 20" | Punch card required |
| 1980 | 4th Sat. in May–6 Jul | Mouth to forks | | 1/day over 20" & 2 possession | 5 over 20" | Punch card required |
| 1981 | 4th Sat. in May–6 Jul | Mouth to forks | | 1/day over 20" & 2 possession | 5 over 20" | Harvest record sticker Permit stamp. Record on back of license |
| 1982 | 4th Sat. in May–6 Jul | Mouth to forks | | 1/day over 20" & 2 possession | 5 over 20" | Harvest record back of license |
| 1983 | 1 Jan–6 Jul | Mouth to forks | | 1/day over 20" & 2 possession | 5 over 20" | Harvest record back of license |
| 1984 | 1 Jan–6 Jul | Mouth to forks | | 1/day over 20" & 2 possession | 5 over 20" | Harvest record back of license |
| 1985 | 1 Jan–6 Jul | Mouth to forks | | 1/day over 20" & 2 possession | 5 over 20" | Harvest record back of license |
| 1986 | 1 Jan–6 Jul | Mouth to forks | | Over 16": 2/day & 4 possession, only 1/day & 2 possession over 28" | 5 over 16" | Harvest record back of license |
| 1987 | 1 Jan–13 Jul | Mouth to forks | | Over 16": 2/day & 4 possession, only 1/day & 2 possession over 28" | 5 over 16" | Harvest record back of license |
| 1988 | 1 Jan–13 Jul | Mouth to forks | | Over 16": 2/day & 4 possession, only 1/day & 2 possession over 28" | 5 over 16" | Harvest record back of license |
| 1989 | 1 Jan–13 Jul | Mouth to forks | | Over 16": 2/day & 4 possession, only 1/day & 2 possession over 28" | 5 over 16" | |
| 1990 | 1 Jan–13 Jul | Mouth to forks | | Over 16": 2/day & 4 possession, only 1/day & 2 possession over 28" | 5 over 16" | |
| 1991 | 1 Jan–13 Jul | Mouth to forks | | Over 16": 2/day & 4 possession, only 1/day & 2 possession over 28" | 5 over 16" | |
| 1992 | 1 Jan–13 Jul | Mouth to forks | No bait between Trapper Creek and forks on 22 Jun by EO | 1/day over 16" & 1 possession. Release of fish over 16" between Trapper and forks on 22 Jun by EO | 5 over 16" | |

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Appendix B2.–Page 2 of 3.

| Year | Fishery dates | Area & time restrictions | Method & gear restrictions | Bag & possession limits | Seasonal NCI limit | Other requirements |
|------|--|--|--------------------------------------|---|--|--|
| 1993 | 1 Jan–13 Jul | Mouth to forks | Artificial only until 15 May | 1/day over 16" & 2 possession | 5 over 16" | King stamp. Harvest record back of license |
| 1994 | Closed 17 Jun by EO | Mouth to forks | Artificial only until 16 May | 1/day over 16" & 2 possession | 5 over 16" | King stamp. Harvest record back of license |
| 1995 | Closed | | | | | |
| 1996 | Closed | | | | | |
| 1997 | Opened 21 Jun by EO | Lower 2 miles of river | Artificial only | 1/day over 16" & 1 possession | 5 over 16" | King stamp. Harvest record back of license |
| 1998 | 1 Jan–13 Jul | Lower 5 miles of river | Artificial only | 1/day over 16" & 1 possession | 5 over 16" 5 over 16", only 2 from Deshka R. | King stamp. Harvest record back of license |
| 1999 | 1 Jan–13 Jul | Mouth to Chijuk Creek, 6 AM–11 PM | Artificial only | 1/day over 16" & 1 possession | 5 over 16" | King stamp. Harvest record back of license |
| 2000 | 1 Jan–13 Jul | Mouth to Chijuk Creek, 6 AM–11 PM | Bait allowed 8 Jun by EO | 1/day over 16" & 1 possession | 5 over 16" | King stamp. Harvest record back of license |
| 2001 | 1 Jan–13 Jul | Mouth to Chijuk Creek, 6 AM–11 PM | Bait allowed 12 Jun by EO | 1/day over 20" & 1 possession | 5 over 20" | King stamp. Harvest record back of license |
| 2002 | 1 Jan–13 Jul | Mouth to Chijuk Creek, 6 AM–11 PM | Bait allowed 8 Jun by regulation | 1/day over 20" & 2 possession | 5 over 20" | King stamp. Harvest record back of license |
| 2003 | 1 Jan–13 Jul | Mouth to Chijuk Creek, 6 AM–11 PM | Bait allowed 8 Jun by regulation | 2/day over 20" & 4 possession on 18 Jun by EO | 5 over 20" | King stamp. Harvest record back of license |
| 2004 | 1 Jan–13 Jul | Mouth to Chijuk Creek, 6 AM–11 PM | Bait allowed 28 May by EO | 2/day over 20" & 4 possession on 12 Jun by EO | 5 over 20" | King stamp. Harvest record back of license |
| 2005 | 1 Jan–13 Jul. Extended through 31 Jul by EO. | Mouth to Chijuk Creek. Open 24-h on 27 May by EO | Bait allowed 15 May by regulation | 2/day over 20" & 4 possession on May 27 by EO | 5 over 20" | King stamp. Harvest record back of license |

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| Year | Fishery dates | Area & time restrictions | Method & gear restrictions | Bag & possession limits | Seasonal NCI limit | Other requirements |
|------|---------------|---|---|---|--------------------|--|
| 2006 | 1 Jan–13 Jul | Mouth to Chijuk Creek. Open 24-h on 26 May by EO. | Bait allowed 15 May by regulation | 2/day over 20" & 4 possession on May 26 by EO | 5 over 20" | King stamp. Harvest record back of license |
| 2007 | 1 Jan–13 Jul | Mouth to Chijuk Creek. Open 24-h on 25 May by EO. | Bait allowed 15 May by regulation | 2/day over 20" & 4 possession on May 25 by EO | 5 over 20" | King stamp. Harvest record back of license |
| 2008 | 1 Jan–13 Jul | Mouth to Chijuk Creek, 6 AM–11 PM. Closed 19 Jun by EO. | Bait not allowed 14 Jun–13 Jul by EO | 1/day over 20" & 1 possession | 5 over 20" | King stamp. Harvest record back of license |
| 2009 | 1 Jan–13 Jul | Mouth to Chijuk Creek, 6 AM–11 PM. Retention Sat–Mon only, 13 May by EO. Closed 11 Jun by EO. | Bait not allowed after 20 Apr by EO | 1/day over 20" & 1 possession | 5 over 20" | King stamp. Harvest record back of license |
| 2010 | 1 Jan–13 Jul | Mouth to Chijuk Creek, 6 AM–11 PM | Bait not allowed after 12 Jun–19 Jun by EO | 1/day over 20" & 1 possession | 5 over 20" | King stamp. Harvest record back of license |
| 2011 | 1 Jan–13 Jul | Mouth to Chijuk Creek 6 AM–11 PM | Bait not allowed after 31 Aug | 1/day over 20" & 1 possession | 5 over 20" | King stamp. Harvest record back of license |
| 2012 | 1 Jan–13 Jul | Mouth to Chijuk Creek, 6 AM–11 PM | Bait not allowed after 20 Jun–19 Jun. Sport fishing closed upstream of weir by EO | 1/day over 20" & 1 possession | 5 over 20" | King stamp. Harvest record back of license |

2006

1991

1. Little Susitna River Coho Salmon Management Plan (5 AAC 61.060). Initiated in 1991 season. One coho salmon 1 January through 5 August, three coho salmon 6 August through 31 December, increase to five coho salmon below weir and at Nancy Lake Creek when 7,500 projected above Parks Highway, quit fishing when bag limit harvested below Burma Landing. Previously there was a three-salmon daily bag limit, all three of which could be coho salmon.

Emergency Orders (EOs):

1. EO No. 2-SS-2-27-91 closed to fishing that portion of the Little Susitna River from the fish counting weir located at river mile 32.5 downstream for a distance of 1,500 feet. Effective 27 July through 14 September 1991.
2. EO No. 2-RS-1-29-91 closed sockeye salmon fishing in all waters north of the latitude of Anchor Point. Effective 7:00 AM 26 July through 31 December 1991.
3. EO No. 2-RS-2-33-91 opened the Fish Creek personal use dip net fishery. Effective 30 July through 9 August 1991.
4. EO No. 2-RS-2-34-91 reopened the Little Susitna River drainage and all freshwater drainages of Knik Arm to fishing for sockeye salmon. Effective noon, 29 July through 31 December 1991.
5. EO No. 2-RS-2-36-91 rescinded EO No. 2-RS-1-29-91, thereby reopening recreational sockeye salmon fisheries within waters of the Kenai Peninsula and Susitna–West Cook Inlet regulatory areas and marine waters of Cook Inlet north of Anchor Point. Effective 7:00 AM, 2 August through 31 December 1991.
6. EO No. 2-CS-2-38-91 closed the Eklutna Power Plant tailrace to sport fishing from the Old Glenn Highway downstream to ADF&G markers placed approximately 100 yards upstream of the confluence of the tailrace and the Knik River. Effective noon, 6 August through 31 December 1991.
7. EO No. 2-SS-2-42-91 increased bag and possession limits to five coho salmon at the Little Susitna River downstream from the ADF&G salmon counting weir at river mile 32.5. Effective noon, 14 August through 31 December 1991.

1992

1. Little Susitna River Coho Salmon Management Plan modified. In effect for 1993 season. Only unbaited artificial lures may be used in the Little Susitna River from 15 July through 5 August. The bag and possession limits for coho salmon 16 inches or more in length during this time period were increased to three daily and in possession.
 2. Aimed at rainbow trout. Only unbaited artificial lures may be used in all flowing waters of the Susitna–West Cook Inlet area 1 September through 15 May. Initiated in 1993 season.
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3. Changes in the Cook Inlet Personal Use Salmon Dip Net Fishery Management Plan (5 AAC 77.540) pertaining to the Fish Creek dip net fishery. 1993 was the first year coho salmon were allowed in the harvest. Daily bag and possession limit six salmon.
4. BOF found that most of Cook Inlet was a nonsubsistence zone and repealed the Upper Cook Inlet Subsistence Salmon Management Plan (5 AAC 01.592) thus eliminating the subsistence fishery in Upper Cook Inlet for the 1993 season (eliminated the Knik set gillnet fishery). This plan was reinstated by court action for the 1994 season. The only area that remained open to subsistence fishing in the Upper Cook Inlet area during 1993 was the Tyonek subdistrict of the Northern District on the west side of Cook Inlet.

Emergency Orders:

1. EO No. 2-RS-2-21-92 opened the Fish Creek personal use dip net fishery. Dip net fishing was allowed for three consecutive days followed by a one day closure on a continuing basis. Effective 6:00 AM, 23 July through 6 August 1992.
2. EO No. 2-SS-2-22-92 closed to fishing that portion of the Little Susitna River from the fish counting weir located at river mile 33 downstream for a distance of 1,500 feet. Effective 25 July through 14 September 1992.
3. EO No. 2-RS-2-28-92 closed the Susitna River drainage to sockeye salmon fishing. Effective 31 July through 31 December 1992.
4. EO No. 2-SS-2-29-92 increased bag and possession limits to five coho salmon 16 inches or more in length downstream from the ADF&G counting weir at river mile 32.5. Effective 15 August through 31 December 1992.

1993

Emergency Orders:

1. EO No. 2-RS-2-23-93 opened the Fish Creek personal use fishery. The dip net fishery opened 9:00 AM, 24 July and closed midnight, 6 August, with the fishery being closed 26 July, 30 July, and 3 August 1993.
 2. EO No. 2-SS-2-25-93 closed to fishing that portion of the Little Susitna River from the fish counting weir located at river mile 33 downstream for a distance of 1,500 feet. Effective 23 July through 15 September 1993.
 3. EO No. 2-SS-2-32-93 increased the bag and possession limits to five coho salmon at the Little Susitna River downstream from the ADF&G counting weir at river mile 32.5. Effective 11 August through 31 December 1993.
 4. EO No. 2-SS-2-33-93 closed to fishing that portion of Jim Creek from the fish counting weir located at river mile 1 downstream for a distance of 500 feet. Effective 12 August through 1 November 1993.
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1994

Emergency Orders:

1. EO No. 2-RS-2-28-94 opened the Fish Creek personal use fishery. The dip net fishery opened 9:00 AM, 27 July and closed midnight 5 August, with the fishery being closed 29 July and 2 August 1994.
2. EO No 2-RS-2-33-94 supersedes EO 2-RS-2-28-94 extending the Fish Creek Personal Use Dip Net Fishery through midnight, 9 August. Effective 7 through 9 August 1994.
3. EO No. 2-KS-2-05-94 closed to fishing that portion of the Little Susitna River from the fish counting weir located at river mile 33 downstream for a distance of 1,500 feet. Effective 25 May through 15 September 1994.
4. EO No. 2-SS-2-32-94 increased the bag and possession limits to five coho salmon at the Little Susitna River downstream from the ADF&G counting weir at river mile 32.5. Effective 6 August through 31 December 1994.
5. EO No. 2-SS-2-29-94 closed that portion of Jim Creek to fishing from the fish counting weir located at river mile 1 downstream for a distance of 1,000 feet. Effective 26 July through 1 November 1994.

1995

1. Upper Cook Inlet Subsistence Salmon Management Plan was repealed by the BOF in 1995. BOF took action to allow subsistence fishery as a personal use fishery. The Knik set gillnet fishery was executed as a personal use fishery in 1995.

Emergency Orders:

1. EO No. 2-KS-2-07-95 closed to fishing that portion of the Little Susitna River from the fish counting weir located at river mile 33 downstream for a distance of 1,900 feet. Effective 25 May through 15 September 1995.
2. EO No. 2-RS-02-32-95 opened the Fish Creek personal use fishery. The dip net fishery opened 5:00 AM, 26 July and closed midnight, 8 August, with the fishery being closed 28 July and 1 August and 4 August 1995.
3. EO No. 2-SS-02-40-95 increased the bag and possession limits to five coho salmon at the Little Susitna River downstream from the ADF&G counting weir at river mile 32.5. Effective 9 August through 31 December 1995.

1996

1. The Upper Cook Inlet Personal Use Salmon Fishery Management Plan (5 AAC 77.540) establishes time, area, methods, and means for taking salmon for personal use. This plan first went into effect during the 1996 season. It provides for personal use dip net fisheries in the Kenai and Kasilof rivers and Fish Creek. Additionally, limited personal use gillnet fishing opportunity is provided near the terminus of the Kasilof River. No Knik set gillnet fishery was provided.

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2. Changes were made to the Fish Creek Sockeye Management Plan (5 AAC 21.364) concerning the Fish Creek Personal Use Dipnet fishery. The dip net fishery will now run 10 July through 31 July with a bag limit of 25 salmon per head of household plus 10 salmon per each household member. A permit is required.
3. The Skwentna River Personal Use Salmon Fishery Management Plan (5 AAC 77.526) establishes a subsistence fish wheel fishery in the Yentna River downstream of its confluence with the Skwentna River. This fishery was implemented as a personal use fishery during the 1996 and 1997 seasons.
4. Little Susitna River Coho Salmon Management Plan was modified. The option to increase the bag and possession limits of coho salmon in specified areas of the Little Susitna River when the escapement goal of 7,500 nonhatchery fish upstream of the Parks Highway is projected, was repealed. The bag and possession limits of salmon other than Chinook salmon in the Little Susitna River are three fish per day and in possession.
5. At the November 1996 meeting the BOF modified 5 AAC 61.035. Only unbaited, single-hook, artificial lures may be used in all flowing waters of the Alexander Creek drainage upstream of an ADF&G regulatory marker located 400 yards upstream of the confluence of Trail Creek.

1997

Emergency Orders:

1. EO No. 2-RS-2-25-97 closed Fish Creek dipnetting from 11:00 AM, 23 July through 11:00 PM, 25 July 1997.
2. EO No. 2-RS-2-28-97 closed Fish Creek dipnetting for the remainder of the 1997 season on 26 July 1997.
3. EO No. 2-SS-02-31-97 prohibited use of bait and reduced daily bag and possession limit of coho salmon to one in all waters of Cook Inlet on 9 August 1997. Areas not included were Eklutna Tailrace, Ship, Bird, and Campbell creeks.
4. EO No. 2-SS-2-34-97 closed Wasilla Creek downstream from the railroad bridge, including Rabbit Slough and Spring Creek, to sport fishing 23 August through 31 October 1997.

1998

1. The Upper Yentna River Subsistence Salmon Fishery (5 AAC 01.593) establishes a subsistence fish wheel fishery in the Yentna River downstream of its confluence with the Skwentna River. This fishery was implemented as a personal use fishery during the 1996 and 1997 seasons. State Supreme Court and BOF action changed it to a subsistence fishery beginning in 1998. This change did not affect coho salmon harvest.
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Emergency Orders:

1. EO No. 2-KS-2-14-98 closes the Deshka River to all fishing 1,200 feet downstream and 300 feet upstream of the fish counting weir.
2. EO No. 2-RS-2-15-98 closes Fish Creek to dipnetting effective 25 through 31 July 1998.

1999

1. Recreational fishing time on Fish, Wasilla, and Cottonwood creeks has been reduced. Fishing hours were restricted from 24-hour fishing days to 12-hour fishing days (6:00 AM to 6:00 PM) in these Saturday and Sunday only fisheries. Once an angler has harvested a bag limit of three salmon, he or she may no longer fish on this stream for the remainder of the day.
2. In all waters of West Cook Inlet South of the Susitna River (i.e. Chuitna, Lewis, Theodore, and McArthur rivers), once an angler has harvested a bag limit of three coho salmon he or she may no longer fish on this stream for the remainder of the day. These same streams are closed to coho salmon fishing from 1 October through 31 December.
3. For the Little Susitna River existing bait restrictions were modified to allow the use of bait during the month of September.
4. Little Susitna River Coho Salmon Management Plan was modified. The escapement goal of 7,500 coho salmon was changed to an escapement range of 9,600–19,200 nonhatchery fish.

Emergency Orders:

1. EO No. 2-KS-2-05-99 closed the Deshka River to fishing from 1,000 yards downstream to 200 yards upstream of the fish counting weir.
2. EO No. 2-RS-2-15-99 closed Fish Creek to dipnetting on 26 July 1999.
3. EO No. 2-SS-2-20-99 reduced the bag limit to one coho salmon and no bait for Cottonwood, Wasilla, and Fish creeks and the Little Susitna River, on 19 August 1999.

2000

During the BOF meeting in February 2000, the following recreational fishery restrictions were put in place to address coho salmon conservation concerns.

The coho salmon bag and possession limits in the Knik Arm (excluding the stocked coho salmon fishery in the Eklutna Tailrace) and the Susitna River were reduced to two. The West Cook Inlet bag and possession limits north of the West Foreland were reduced to two daily and four in possession. South of the West Foreland they remained at three daily and six in possession.

Wasilla Creek, Jim Lake, Upper Jim Creek, and McRoberts Creeks were closed to coho salmon fishing.

After taking a limit of coho salmon from Fish and Cottonwood creeks, a person may not fish that same day in Fish and Cottonwoods creeks in waters open to salmon fishing.

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The sockeye return to Fish Creek was poor again this year and the dip net fishery was closed early by EO.

Emergency Orders: The two coho salmon daily bag limit caused some confusion on the Little Susitna River so an EO was issued to clarify the new regulation.

1. EO No. 2-SS-2-17-00 stated that after keeping two coho salmon below river mile 32.5 Little Susitna River, an angler must quit fishing in the Little Susitna River for the remainder of the day, 28 July–31 December.
2. EO No. 2-RS-2-16-00 closed Fish Creek to dipnetting on 26 July 2000.

2001

There were no new regulations concerning coho salmon for the 2001 season.

Emergency Orders: Only one EO was issued affecting coho salmon harvest.

1. EO No. 2-RS-2-17-01 closed Fish Creek to dipnetting on 12 July at 11:00 PM.

2002

The BOF met in February 2002 and adopted new regulations affecting coho salmon.

1. The Larson Creek drainage upstream of a marker one-quarter mile upstream from its mouth is closed to sport fishing for all salmon year-round.
2. Nancy Lake Creek drainage upstream of a marker one-quarter mile upstream from its mouth is closed to all salmon fishing including catch-and-release.
3. The Clearwater and Roscoe creeks drainages are closed year-round to all fishing upstream from a marker one-half mile upstream of their confluences with the Chinitna River.
4. Open Fish Creek personal use fishery by EO when escapement goal is projected.
5. Open Wasilla Creek from its mouth to the Alaska Railroad bridge for salmon fishing (excluding Chinook salmon). Saturday and Sunday only from 6:00 AM to 6:00 PM only.
6. Eliminate use of bait on Little Susitna River on 14 July upstream of the Little Susitna Public Use Facility.

Emergency Orders: Only one EO was issued affecting coho salmon harvest.

1. EO No. 2-SS-2-29-02 in Fish Creek increased the coho salmon bag limit to three per day and allowed 24-hour per day fishing on Saturdays and Sundays beginning 17 August at 12:01 AM through 31 December.

2003

No new regulations adopted for 2003 and no EOs issued.

2004

No new regulations adopted for 2004 and no EOs issued.

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2005

The BOF met January 2005. Sport fish regulatory changes included the following:

1. A person may no longer fish in waters open to salmon fishing the same day they take a limit of salmon 16 inches or greater from Wasilla Creek.
2. Excluding Alexander Creek, the bag and possession limit for coho salmon on Westside Susitna streams was increased from two per day, four in possession to three per day, six in possession.
3. Anglers may no longer fish for other salmon (coho, pink, or chum salmon) 16 inches or less in waters closed to fishing for other salmon.

The BOF adopted the following commercial fishery regulations:

1. Central District Drift Gillnet Fishery Management Plan (5 AAC 21.353)
 - The drift fishery opens the third Monday in June or June 19 whichever is later.
 - From July 9 through July 15,
 - Drift gillnet fishing is restricted for two regular fishing periods to the Kenai and Kasilof Sections and Drift Area One described below.
 - In runs of over 2 million sockeye salmon to the Kenai River there may be one additional 12-hour period in the Kenai and Kasilof Sections of the Upper Subdistrict and in Drift Area One.
 - From July 16 through July 31,
 - In runs of less than 2 million sockeye salmon to the Kenai River there will be two regular 12-hour fishing periods restricted to the Kenai and Kasilof Sections of the Upper Subdistrict and Drift Area one;
 - In runs of between 2 and 4 million sockeye salmon to the Kenai River; there will be two regular 12-hour fishing periods restricted to the Kenai and Kasilof Sections of the Upper Subdistrict and in Drift Areas One & Two;
 - In runs of over 4 million sockeye salmon to the Kenai River, there are no mandatory restrictions.
 - From August 11 until closed by emergency order,
 - Drift Areas three & Four are open for regular periods;
 - Chinitna Bay may be opened by emergency order.

New Drift Fishing Areas:

- (1) Drift Area One: includes those waters of the Central District south of Kalgin Island at 60° 20.43' N. lat.;
 - (2) Drift Area Two: includes those waters of the Central District enclosed by a line from 60° 20.43' N. lat., 151° 54.83' W. long. to a point at 60° 41.08' N. lat., 151° 39.00' W. long. to a point at 60° 41.08' N. lat., 151° 24.00' W. long. to a point at 60° 27.10' N. lat., 151° 25.70' W. long. to a point at 60° 20.43' N. lat., 151° 28.55' W. long.;
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- (3) Drift Area Three; includes those waters of the Central District within one mile of mean lower low water (zero tide) south of a point on the West Foreland at 60° 42.70' N. lat., 151° 42.30' W. long.;
- (4) Drift Area Four; includes those waters of the Central District enclosed by a line from 60° 04.70' N. lat., 152° 34.74' W. long. to the Kalgin Buoy at 60° 04.70' N. lat., 152° 09.90' W. long. to a point at 59° 46.15' N. lat., 152° 18.62' W. long. to a point on the western shore at 59° 46.15' N. lat., 153° 00.20' W. long., not including the waters of the Chinitna Bay Subdistrict.

Other commercial fishery regulatory changes included:

- Up to 50 fathoms of the 150 fathoms of allowable drift gillnet gear per boat may be monofilament mesh; you must register with ADF&G prior to using monofilament gear.
- Spotter planes are allowed during the fishing period.
- Pink salmon fishery during even years was reauthorized; mesh size restriction was removed.
- Up to 35 fathoms of set gillnet gear per permit may be monofilament mesh with no more than one net per permit having monofilament mesh; you must register with ADF&G prior to using monofilament gear.

No emergency orders were issued affecting coho salmon fisheries in 2005.

2006

No new regulations were adopted in 2006.

Emergency orders:

1. EO No. 2-SS-2-41-06 increased the daily bag limit of coho salmon to three daily in that portion of the Little Susitna River open to salmon fishing beginning 19 August.
2. EO No. 2-SS-2-44-06 increased salmon fishing time on Wasilla Creek to 24 hours per day while keeping the Saturday and Sunday, weekend only restriction and increased the bag limit for coho salmon to three daily in those waters open to salmon fishing on 19 August.
3. EO No. 2-SS-43-06 increased salmon (other than Chinook salmon) fishing time on Fish Creek to 24 hours per day while keeping the Saturday and Sunday, weekend only restriction and increased the bag limit for coho salmon to three daily in those waters open to salmon fishing on 19 August.
4. EO No. 2-SS-2-42-06 increased salmon fishing time on Cottonwood Creek to 24 hours per day while keeping the Saturday and Sunday, weekend only restriction and increased the bag limit for coho salmon to three daily in those waters open to salmon fishing on 19 August.

2007

No new regulations were adopted in 2007.

Emergency orders:

1. EO No. 2-SS-2-36-07 prohibits retention of coho salmon while sport fishing in the Knik Arm Management Area, excluding Eklutna Tail Race and fish creek effective 4 September.
2. EO No. 2-SS-2-37-07 rescinded EO No. 2-SS-2-36-07 on 11 September.

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2008

No new sport fish regulations adopted in 2008. The central drift fishery was liberalized from regular fishing periods (Monday and Thursday) being restricted to areas 3 and 4 after 11 August to no mandatory restrictions to regular fishing periods between 11 and 15 August.

Emergency orders:

1. EO No. 2-SS-2-26-08 Increased the bag limit for coho salmon to three per day in that portion of the Knik Arm open to salmon fishing, excluding Jim Creek beginning 16 August.

2009

No new regulations adopted in 2009.

Emergency orders:

1. EO No. 2-SS-2-27-09 Increased the bag limit for coho salmon to three per day in that portion of the Knik Arm open to salmon fishing except the Little Susitna river beginning 19 August.
2. This same EO also added Mondays to the weekend fisheries of Cottonwood, Wasilla, and Fish Creeks beginning 19 August.

2010

No new regulations adopted in 2010.

Emergency Orders:

1. EO No. 2-SS-2-42-10 increased the bag limit for coho salmon to three per day in that portion of the Knik Arm open to salmon fishing except Jim Creek and the Little Susitna River beginning 7 August.
2. EO No. 2-RS-2-38-10 opened the Fish Creek Personal Use Dip Net fishery for salmon other than Chinook salmon only between the hours of 6:00 AM and 11:00 PM starting at 6:00 AM, 24 July and ending 11:00 PM, 31 July.

2011

The BOF met February 2011. Sport fish regulatory changes included the following:

1. In fresh water of Cook Inlet, a coho salmon removed from the water shall be retained. No person may remove from the water a coho salmon he or she intends to release.
 2. The bag and possession limits for coho salmon increased from two to three in streams of West Cook Inlet north of West Forelands to the Susitna River. Streams within in this area include Chuitna, Theodore, and Lewis rivers, and tributaries of the Beluga River.
 3. The bag and possession limit for coho salmon increased from two to three in all streams within Units 3, 5, and 6 of the Susitna River drainage.
 - a.) Talkeetna River streams (Unit 5) include Clear, Larson, and Prairie creeks.
 - b.) Chulitna River streams (Unit 6) include Byers, Honolulu, and Troublesome creeks, and the East Fork Chulitna River.
 - c.) Upper Susitna streams (Unit 3) include Indian and Portage creeks.
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Emergency Orders:

1. EO No. 2-SS-2-26-11 prohibited the use of bait on the Little Susitna River effective 12:01 AM, Saturday, 6 August 2011, through 11:50 PM, Friday, 20 September 2011.
2. EO No. 2-SS-2-27-11 closed all waters of the Knik Arm Management Area, excluding Eklutna Tailrace and Fish Creek, to fishing for coho salmon effective 12:01 AM, Saturday, 27 August 2011.

2012

Emergency Orders:

1. EO No. 2-KS-2-06-12 reduced the annual limit for Chinook salmon 20 inches or longer from five fish to two fish and limited sport fishing gear to one unbaited, single hook, artificial lure in the Susitna River drainage, effective 6:00 AM, Tuesday, 15 May 2012.
2. EO No. 2-KS-2-07-12 reduced the annual limit for Chinook salmon 20 inches or longer from five fish to two fish and limited sport fishing gear to one unbaited, single hook, artificial lure in the Little Susitna River drainage, effective 6:00 AM, Tuesday, 15 May 2012 through 11:59 PM, Friday, 13 July 2012.
3. EO No. 2-KS-2-14-12 closed the Little Susitna River to fishing for Chinook salmon effective 6:00 AM, Friday, 15 June 2012, through 11:59 PM, Friday, 13 July 2012.
4. EO No. 2-KS-2-15-12 prohibited the use of bait and limited sport fishing gear to one unbaited, single-hook artificial lure while sport fishing in the Deshka River, effective 6:00 AM, Wednesday, 20 June 2012, through 11:00 PM, Friday, 13 July 2012.
5. EO No. 2-KS-2-20-12 closed the Susitna River drainage to sport fishing for Chinook salmon and limited sport fishing gear to one unbaited, single hook, artificial lure when fishing in waters normally opened to Chinook salmon fishing, effective 6:00 AM, Monday, 25 June 2012, through 11:59 PM, Friday, 13 July 2012.
6. EO No. 2-RT-2-31-12 increased the possession limit for rainbow trout in Reflections Lake to five per day and five in possession, with only one 20 inches or greater in length, effective 6:00 AM, Friday, 6 July 2012, through 11:59 PM, Monday, 31 December, 2012.
7. EO No. 2-SS-2-49-12 prohibited sport fishing for coho salmon on the Little Susitna River effective 12:01 AM, Monday, 6 August 2012, through 11:59 PM, Sunday, 30 September 2012.
8. EO No. 2-SS-2-50-12 prohibited the use of bait for coho salmon on the Little Susitna River effective 12:01 AM, Monday, 6 August 2012, through 11:59 PM, Sunday, 30 September 2012.
9. EO No. 2-SS-2-51-12 reduced the bag limit for coho salmon in Jim Creek from two fish to one fish only between the hours of 6:00 AM to 6:00 PM, effective 6:00 AM, Friday, 10 August 2012.
10. EO No. 2-SS-2-53-12 closed all waters of the Knik Arm Management Area, excluding Eklutna Tailrace and Fish Creek, to fishing for coho salmon effective 12:01 AM, Friday, 17 August 2012.

1989

1. The BOF adopted a proposal to establish a bag limit of 10 per day, 10 in possession on northern pike in the Susitna–West Cook Inlet Area.

1997

2. Sport fishing for northern pike using five lines is allowed in specified lakes of the Susitna–West Cook Inlet Area provided the following: hooks are single hooks with a gap between the point and shank no smaller than three-quarters inch, the lines are closely attended, and all species of fish other than northern pike are immediately released. Specified lakes include the following: Alexander Lake, Sucker Lake, Trapper Lake, Flathorn Lake, Whiskey Lake, Hewitt Lake, Donkey Lake, Three Mile Lake (Beluga area), Neil Lake, Kroto Lake, and lakes of the Nancy Lake Recreation Area excluding Nancy and Big No Luck lakes.
3. The 10 fish bag and possession limits on northern pike in the Susitna–West Cook Inlet Area were repealed.

1998

4. Established a slot limit for northern pike in Alexander and Trapper lakes. No bag and possession limits are in effect for northern pike less than 22 inches in length. Northern pike between 22 inches and 30 inches in length may not be retained. The bag and possession limits for northern pike 30 inches or greater in length are one per day and one in possession. Additionally, the action taken for Alexander and Trapper lakes reduced the number of lines allowed when fishing through ice for northern pike from five lines to two lines, and prohibited the use of spears and bow and arrows for taking of northern pike.
5. Action allowed the use of bow and arrow for taking northern pike in NCI waters.
6. Action resulted in eliminating the three-quarter-inch single-hook size restriction when fishing through the ice on select northern Cook Inlet lakes where five lines are allowed.

2002

1. The use of five lines while ice fishing for northern pike apply to seven additional lakes in Northern Cook Inlet: Trapper Lake, Big No Luck Lake, Figure Eight Lake, Cabin Lake, Lower Vern Lake, Upper Vern Lake, and Lockwood Lake. On Trapper Lake, there is no longer a “slot limit” for northern pike; bait, multiple hooks, spears, and bow and arrow gear are now allowed. For the purposes of sport fishing, legal bow and arrow gear includes crossbows. When fishing through the ice for northern pike, anglers may use two hooks on a single line, provided that both hooks are attached to one single piece of bait.

2009

1. The BOF met out-of-cycle in April 2009: the slot limit regulation on Alexander Lake was replaced with a size limit regulation. Under the new regulation, all northern pike less than 27 inches may be harvested without a bag or possession limit, while only one pike larger than 27 inches may be retained per day and in possession.

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2011

1. The BOF met in February 2011: the size limit for northern pike on Alexander Lake was repealed. Additional gear is also allowed. Alexander Lake anglers may continue to use five lines through the ice, but will now be able to use bow-and-arrow and spears to take northern pike, with no bag, possession, or size limit year round.
2. Anglers may now fish for northern pike through the ice on Big and Nancy lakes under specific guidelines:
 - a.) Five lines from 1 November to 15 March.
 - b.) Fishing is only allowed 8:00 AM to 5:00 PM. Note: current regulations for other species within these lakes have not changed and anglers fishing for other species may fish outside hours designated for pike.
 - c.) Hook gap must be at least three-quarters inch from point to shank.
 - d.) Two single hooks are allowed per line so long as both hooks are attached to the same piece of bait.
 - e.) A whole legally recognized bait fish such as a herring or eulachon must be used if fishing with bait.
 - f.) Bait must be suspended above the bottom of the lake.
 - g.) All lines must be closely attended.
 - h.) All fish except northern pike must be immediately released unharmed.
 - i.) In the Susitna River drainage, including all westside tributaries and waters of the eastside Susitna River north of Willow Creek, and in all West Cook Inlet area waters, northern pike may not be released back into the water alive. Further, anglers may choose to either discard dead pike in a responsible manner or harvest their catch.

**APPENDIX C: MANAGEMENT PLANS AND POLICIES
THAT IMPACT NORTHERN COOK INLET
MANAGEMENT AREA FISHERIES**

Appendix C1.–Management plans and policies that impact Northern Cook Inlet management area fisheries.

5 AAC 21.363. UPPER COOK INLET SALMON MANAGEMENT PLAN (UCISMP) provides long-term direction to the Alaska Board of Fisheries for allocation and conservation of fisheries involving Upper Cook Inlet (UCI) salmon stocks. The plan defines UCI salmon stocks as those that move through the Northern and Central Districts and spawn in waters draining into those districts. Various “step down” management plans relate to the Upper Cook Inlet Salmon Management Plan and provide specific direction to fishery managers regarding user groups, time, area, or species.

The Upper Cook Inlet Salmon Management Plan established the following provisions for the management and conservation of UCI salmon stocks:

1. Provide for a subsistence priority.
2. Harvest of UCI salmon will be governed by specific and comprehensive management plans.
3. In adopting these plans the following will be considered: need for subsistence, protection of fisheries habitat, and the needs and demands of user groups.
4. The management plans may address the following: the need to allocate harvestable surplus among commercial, sport, guided sport, and personal use fisheries and the need to allocate the harvestable surplus within user groups.
5. In the absence of a specific management plan, salmon shall be harvested in the fisheries that have historically harvested them.
6. In the absence of a specific management plan, the burden of conservation shall be shared among all user groups in close proportion to their respective harvest.

5 AAC 01.560. TYONEK SUBSISTENCE FISHERY provides subsistence fishing opportunity primarily to residents of the village of Tyonek. Fish harvested in this fishery are bound for NCIMA. Specific fishing periods occur from 15 May through 15 October. A harvest quota of 4,200 Chinook salmon was removed in 2011 and replaced with a bag and possession limit of 25 salmon for the head of a household and 10 salmon for each dependent of the permit holder. The ANS for this fishery is 2,700 Chinook salmon and 150–500 salmon other than Chinook salmon.

5 AAC 21.368. BIG RIVER SOCKEYE SALMON MANAGEMENT PLAN authorizes a harvest of Big River salmon by set gillnets in the Kustatan Subdistrict of the Central District. Sockeye salmon is the targeted species. This fishery extends from 1 June through 24 June, on Monday, Wednesday, and Friday from 7:00 AM to 7:00 PM. It is subject to emergency closure when the incidental harvest of Chinook salmon exceeds 1,000 fish. At the 2005 BOF meeting, the plan was amended to expand fishing to a portion of the Kalgin Island Subdistrict along the western shore from Light Point to the Kalgin Island Light on the southern end of the island.

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5 ACC 21.353. CENTRAL DISTRICT DRIFT GILLNET FISHERY MANAGEMENT PLAN was partitioned from the Northern District Salmon Management Plan during the 2005 BOF meeting. Management of the drift gillnet fishery is dependent on the run strength of sockeye salmon to the Kenai River. The plan was modified during the 2011 BOF meeting to include a preamble that the drift gillnet fishery was to be managed to minimize the harvest of Northern District and Kenai River coho salmon in order to provide sport and guided sport fishermen a reasonable opportunity to harvest these salmon stocks over the entire run, as measured by the frequency of inriver restrictions.

1. The drift fishery opens the third Monday in June or 19 June, whichever is later.
2. From 9 July through 15 July,
 - a) fishing during the first regular period is restricted to the Expanded Kenai and Expanded Kasilof Sections; additional fishing time is restricted to these areas;
 - b) fishing during the second regular fishing period is restricted to the Kenai and Kasilof Sections of the Upper Subdistrict and Drift Area 1; and
 - c) at run strengths greater than 2.3 million, one additional fishing period may be allowed in the Kenai and Kasilof Sections of the Upper Subdistrict and Drift Gillnet Area 1.
3. From July 16 through July 31,
 - a) at run strengths less than 2.3 million sockeye salmon to the Kenai River, fishing during one regular period will be restricted to the Expanded Kenai and Expanded Kasilof Sections of the Upper Subdistrict and Drift Area 1;
 - b) at run strengths of 2.3–4.6 million sockeye salmon to the Kenai River, fishing during one regular 12-hour fishing period per week will be restricted to either or both the Expanded Kenai and Expanded Kasilof Sections of the Upper Subdistrict or Drift Area 1; and
 - c) at run strengths greater than 4.6 million, there will be no mandatory restrictions during regular fishing periods.
4. From 16 August until closed by emergency order, Drift Gillnet Areas 3 and 4 are open for fishing during regular fishing periods.
5. From 11 August through 15 August, there are no mandatory area restrictions to regular periods, except that if the Upper Subdistrict set gillnet fishery is closed under 5 AAC 21.301(b)(2)(C)(iii), regular fishing periods are restricted to Drift Gillnet Areas 3 and 4.

5 AAC 21.358. NORTHERN DISTRICT SALMON MANAGEMENT PLAN provides for the following management guidelines:

1. Minimizes the harvest of coho salmon bound for the Northern District of UCI and provides ADF&G direction for management of salmon stocks.
2. Manage the Northern District commercial salmon fisheries based on abundance of sockeye salmon counted through the weirs on Larson, Chelatna, and Judd lakes or other salmon indices.

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3. From 20 July through 6 August, if ADF&G's assessment of abundance indicates that restrictions are necessary to achieve the escapement goal, the commissioner may, by emergency order, close the commercial set gillnet fishery in the Northern District and immediately reopen a season during which the number of set gillnets that may be used is limited to the following options selected at the discretion of the commissioner, except that from 31 July through 6 August, the commissioner may allow the use of two set gillnets in that portion of the General District south of the Susitna River.
4. Manage the Northern district commercial salmon fisheries to minimize the incidental take of coho salmon stocks bound for the Northern District.
5. Personal use fishing with a set gillnet is prohibited in the Northern District.
6. Directs ADF&G to conduct habitat assessments to determine loss of riparian habitat by noncommercial fishermen.

5 AAC 21.354. COOK INLENT PINK SALMON MANAGEMENT PLAN adopted in 2002 and amended in 2005 and 2011, provides for even year pink salmon returns to be managed primarily for commercial uses while minimizing the harvest of Northern District and Kenai River coho salmon stocks. A commercial pink salmon fishery is authorized if the sockeye salmon escapement goals in the Kenai and Kasilof Rivers are being achieved and if coho salmon run strength is sufficient to withstand additional harvest.

The first period will occur only if, during the regular fishing periods from 6 August through 10 August, the daily harvest of pink salmon exceeds 50,000 fish or the cumulative harvest is 10,000 or more pink salmon. The second pink salmon commercial fishing period will occur only if 50,000 or more pink salmon and no more than 2,500 coho salmon are harvested during the first pink salmon commercial fishing period.

5 AAC 21.366. NORTHERN DISTRICT KING SALMON MANAGEMENT PLAN was adopted in 1985 and amended in 2005, 2008, and 2011 by the BOF. This plan provides for the management of the commercial harvest of Chinook salmon in the Northern District as follows:

1. The season runs from the first Monday on or after 25 May through 24 June (4–5 periods depending on the calendar year); fishing was restricted to 3 periods in 2008.
2. Fishing periods were extended from 6 hours to 12 hours (7:00 AM to 7:00 PM) in 2005; periods occur on Mondays.
3. Harvest is capped at 12,500.
4. Set gillnets may not exceed 35 fathoms in length and 6 inches in mesh size.
5. No Commercial Fisheries Entry Commission (CFEC) permit holder may operate more than one set gillnet at a time.
6. No net shall be set within 1,200 feet of another.
7. No net shall be placed seaward of another.
8. 25 May through 24 June, the area from one mile south of the Theodore River to the Susitna River is open the second regular Monday only.
9. If the Theodore, Lewis, or Ivan rivers are closed to sport fishing, the area one mile south of the Theodore River to the Susitna River will be closed to commercial Chinook salmon fishing for the remainder of the season by emergency order.

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10. If the Deshka River is closed to sport fishing, the commercial Chinook salmon fishery throughout the Northern District will close for the remainder of the season by emergency order.

11. If the Chuitna River is closed to sport fishing, the area from a point at the wood chip dock (located about 4.5 miles south of the Chuitna River) to the Susitna River will be closed to commercial Chinook salmon fishing by emergency order for the remainder of the season.

*Note: although not directly part of this plan, the gear restriction (5 AAC 21.331(d)(2)) of two nets from 1 August to 10 August was repealed during the January 2005 BOF meeting.

5 AAC 21.370. PACKERS CREEK SOCKEYE SALMON MANAGEMENT PLAN directs ADF&G not to base commercial fishing time in the Kalgin Island subdistrict on enhanced run strength of Packers Creek sockeye salmon. The plan limits extra fishing time to no more than one additional fishing period per week.

5 AAC 75.210. SPECIAL MANAGEMENT AREAS AND LIBERAL HARVEST OPPORTUNITIES FOR TROUT (previously titled, Criteria for Establishing Special Management Areas for Trout) was adopted by the BOF in November 1996 from the Cook Inlet and Copper River Basin Rainbow/Steelhead Trout Management Policy. These criteria provide future Fisheries Boards, ADF&G managers, and the sport fishing public with the following:

1. Management policies and implementation directives for Cook Inlet rainbow and steelhead trout, and
2. A systematic approach to developing sport fishing regulations that includes a process for rational selection of waters for such special management as catch-and-release, trophy areas and high yield fisheries.

The Statewide Management Standards for Wild Trout (5 AAC 75.220), effective November 2003, directs ADF&G to manage wild stocks of rainbow trout for optimal sustained yield, based on management objectives that maximize benefits of the fisheries while maintaining genetic diversity, biologically desirable size composition, and abundance levels that do not require stocking to enhance or supplement the wild stocks.

Due to concerns over lack of stock status information and the potential for increased angler effort on wild stocks, the potential for loss of fishing opportunity, and the potential for over-exploitation, the BOF intends to manage wild rainbow trout stocks conservatively. Conservative management for areas of the state, other than Southeast Alaska, means a bag and possession limit of two fish, of which only one may be 20 inches or greater in length with an annual limit of two fish 20 inches or greater in length. Note: no changes to NCI wild rainbow trout regulations were made during the 2005 BOF meeting with respect to statewide management standards because regulations within the NCIMA already complied with these standards.

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5 AAC 77.540. UPPER COOK INLET PERSONAL USE SALMON FISHERY MANAGEMENT PLAN establishes time, area, methods, and means for taking salmon for personal use. This plan first went into effect during the 1996 season. Salmon harvest opportunity was established to replace the harvest opportunity previously provided through the Upper Cook Inlet Subsistence Salmon Management Plan, which was repealed by BOF in 1995. The plan provides for personal use dip net fisheries in the Kenai and Kasilof rivers and Fish Creek. Limited personal use gillnet fishing opportunity is provided near the terminus of the Kasilof River. The personal use fishery at Fish Creek may open by emergency order from 10 July through 31 July if ADF&G projects the escapement of sockeye salmon will be more than 50,000 fish.

5 AAC 01.593. UPPER YENTNA RIVER SUBSISTENCE SALMON FISHERY establishes a subsistence fish wheel fishery for salmon other than Chinook salmon in the Yentna River downstream of its confluence with the Skwentna River to the confluence of Martin Creek. This fishery was implemented as a personal use fishery during the 1996 and 1997 seasons. State Supreme Court and BOF action changed it to a subsistence fishery beginning in 1998. A harvest quota of 2,500 salmon, other than Chinook salmon, was removed in 2011 and replaced with a bag and possession limit of 25 salmon for the head of a household and 10 salmon for each dependent of the permit holder. The ANS for this fishery is 400–700 salmon, other than Chinook salmon.

Fisheries for other species not covered by the above management plans or policies are managed to assure sustained yield of the targeted fish stock while assuring the continued, and where possible, the expanded opportunity to participate in the fishery.

Susitna Basin Recreation Rivers Act. In the spring of 1988, the Alaska legislature passed the Recreation Rivers Act (Sec. 41.23.400) and assigned oversight responsibilities related to this act to the Alaska Department of Natural Resources (DNR). This act established six recreation rivers: Little Susitna River, Deshka River (including Moose and Kroto creeks), Talkeetna River, Lake Creek, Talachulitna River, and Alexander Creek. The legislation was enacted to insure that all state lands and waters within the six river corridors are maintained and enhanced for recreation and wildlife purposes. A 2-year planning process was completed, which included input from affected individuals, groups, agencies, and officials throughout the area. The plan (DNR 1991) was adopted as DNR policy in the spring of 1991 following legislative review of the document. Regulations associated with the plan were available for public comment through January 7, 1994. Regulations went into effect for the 1996 season, but no funds have been allocated for enforcement.

**APPENDIX D: NCI SPORT FISHING GUIDES FOR 2011–
2012**

Appendix D1.–Northern Cook Inlet sport fishing guides for 2011–2012.

| Business name | First name | Last name | City | State |
|---|------------|------------|----------------|-------|
| ABSOLUTELY ALASKAN FISHING ADVENTURES | MONTE | ROBERTS | SOLDOTNA | AK |
| ACORD GUIDE SERVICE | GREG | ACORD | WASILLA | AK |
| ACORD GUIDE SERVICE | GREG | ACORD | WASILLA | AK |
| ADVENTURE GUIDING | GEORGE | ORTMAN | WILLOW | AK |
| ADVENTURE OUTFITTERS | JAKE | DOTH | BLAINE | MN |
| ADVENTURE OUTFITTERS ALASKA | JAKE | DOTH | KENAI | AK |
| AIRVENTURES ALASKA INC | CASEY | LONG | WASILLA | AK |
| ALAGASH ADVENTURES | MILTON | BATES | SOLDOTNA | AK |
| ALAGASH ADVENTURES | MILTON | BATES | SOLDOTNA | AK |
| ALASKA EVASION OUTFITTER | CATHERINE | THOMPSON | ANCHORAGE | AK |
| ALASKA FISHING ADVENTURES | BRADLEY | GIROUX | ANCHORAGE | AK |
| ALASKA FISHING AND RAFT ADVENTURES | REINHARD | NEUHAUSER | FAIRBANKS | AK |
| ALASKA FISHING WITH MARK GLASSMAKER | MARK | GLASSMAKER | SOLDOTNA | AK |
| ALASKA GOLD RUSH ADVENTURES LLC | RANDALL | QUINCY | WILLOW | AK |
| ALASKA RAINBOW LODGE | RON | HAYES | FORT WORTH | TX |
| ALASKA RAINBOW LODGE | RON | HAYES | FORT WORTH | TX |
| ALASKA RIVER ADVENTURES | GEORGE | HEIM | COOPER LANDING | AK |
| ALASKA RIVER ADVENTURES | GEORGE | HEIM | COOPER LANDING | AK |
| ALASKA ROBIN FISHING LLC | JOSE | MIQUELEZ | TALKEETNA | AK |
| ALASKA SAFARIS LTD | HENRIK | WESSEL | FAIRBANKS | AK |
| ALASKA SAFARIS LTD | HENRIK | WESSEL | FAIRBANKS | AK |
| ALASKA SALMON FISHING TRIPS | THERESA | STUDNICKA | HOUSTON | AK |
| ALASKA SPORTSMANS LODGE | BRIAN | KRAFT | ANCHORAGE | AK |
| ALASKA SPORTSMANS LODGE | BRIAN | KRAFT | ANCHORAGE | AK |
| ALASKA SUSITNA CHARTERS | GREGORY | GIAUQUE | PALMER | AK |
| ALASKA SUSITNA CHARTERS | GREGORY | GIAUQUE | PALMER | AK |
| ALASKA TROPHY SAFARIS | HARVEY | HARMS | CHUGIAK | AK |
| ALASKA WILDERNESS LODGES DBA ALASKA DENISE LAKE LODGE | GLADYS | HANSON | SOLDOTNA | AK |
| ALASKA'S RIVER WILD LODGE | SETH | KROENKE | PORT ALSWORTH | AK |
| ALASKAN ADVENTURES GUIDE COMPANY | MATT | PAULUS | KENAI | AK |
| ALASKAN GAMEFISHER | MEL | ERICKSON | SOLDOTNA | AK |
| ALASKAN OUTDOORS | RUSTY | CLARKE | VERNON | AZ |
| ALASKAN OUTDOORS | RUSTY | CLARKE | VERNON | AZ |
| ALASKAN RIVER GUIDES | CURTIS | FROMBERG | KASILOF | AK |
| ALASKAN RIVER GUIDES | CURTIS | FROMBERG | KASILOF | AK |
| ALASKAS FINS AND FEATHERS GUIDING COMPANY | DEREK | GARDNER | SOLDOTNA | AK |
| ALL ALASKA OUTDOORS INC | ROBERT | LEDDA | SOLDOTNA | AK |
| ALL ALASKA OUTDOORS, INC. | ROBERT | LEDDA | SOLDOTNA | AK |
| ARCTIC ADVENTURES LLC | ANTHONY | ONEY | ANCHORAGE | AK |
| ARCTIC ADVENTURES LLC | ANTHONY | ONEY | ANCHORAGE | AK |

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Appendix D1.–Page 2 of 5.

| Business name | First name | Last name | City | State |
|----------------------------------|------------|--------------|-----------|-------|
| BAC INC DBA WILLOW AIR | STEVAN | WHITE | WILLOW | AK |
| BAC INC DBA WILLOW AIR | STEVE | WHITE | WILLOW | AK |
| BIG DAVES FISHING ADVENTURES | DAVID | MANNERS | SKWENTNA | AK |
| BIG DAVES FISHING ADVENTURES | DAVID | MANNERS | TILLAMOOK | OR |
| BILL WERNEKE REGISTERED GUIDE | WILLIAM | WERNEKE | SOLDOTNA | AK |
| BILL WERNEKE REGISTERED GUIDE | WILLIAM | WERNEKE | SOLDOTNA | AK |
| BRENT RINKERS ALASKA FISHING | BRENT | RINKER | LUCERNE | CA |
| BRENT RINKERS ALASKA FISHING | BRENT | RINKER | LUCERNE | CA |
| BREWERS GUIDE SERVICE | DOUG | BREWER | NIKISKI | AK |
| CAST AND BLAST | DANIEL | CHALOUX | SOLDOTNA | AK |
| CAST AND BLAST | DANIEL | CHALOUX | SOLDOTNA | AK |
| COTTONWOOD FISHING LODGE | BRUNO | KREBS | ANCHORAGE | AK |
| CROSSHAIRS OUTFITTERS | MICHAEL | COWAN | SOLDOTNA | AK |
| CROSSHAIRS OUTFITTERS OF ALASKA | MICHAEL | COWAN | SOLDOTNA | AK |
| DANS GUIDE SERVICE | DANIEL | VERKUILEN | KENAI | AK |
| DANS GUIDE SERVICE | DANIEL | VERKUILEN | KENAI | AK |
| DENALI FLY FISHING GUIDES LLC | RICHARD | MCPAHAN | CANTWELL | AK |
| DENALI FLY FISHING GUIDES LLC | RICHARD | MCPAHAN | CANTWELL | AK |
| DENALI SOUTHSIDE RIVER GUIDES | CRAIG | JORGENSEN | TALKEETNA | AK |
| DENIS GUIDE SERVICE | DENIS | GALLOTTI | NOVATO | CA |
| DENIS' GUIDE SERVICE | DENIS | GALLOTTI | NOVATO | CA |
| DESHKA WILDERNESS LODGE | MICHAEL | YENCHA | WILLOW | AK |
| DESHKA WILDERNESS LODGE | MICHAEL | YENCHA | WILLOW | AK |
| DRURY FISHING | DON | DRURY | KENAI | AK |
| EAGLEQUEST CABINS AND LODGE | ROY | ROTH | WILLOW | AK |
| EAGLEQUEST CABINS AND LODGE | ROY | ROTH | WASILLA | AK |
| ERIC LOOMIS FISHING ALASKA | ERIC | LOOMIS | SOLDOTNA | AK |
| ERIC LOOMIS FISHING ALASKA | ERIC | LOOMIS | SOLDOTNA | AK |
| FIREWEED LODGE AT LAKE CREEK LLC | WERNER | FRAUENFELDER | ANCHORAGE | AK |
| FIREWEED LODGE AT LAKE CREEK LLC | WERNER | FRAUENFELWER | ANCHORAGE | AK |
| FISHERMAN'S CHOICE CHARTERS, LLC | RAYMOND | BLODGETT | HOUSTON | AK |
| FISHTALE RIVER GUIDES | ANDREW | COUCH | PALMER | AK |
| FISHTALE RIVER GUIDES | ANDREW | COUCH | PALMER | AK |
| FREELANCE OUTDOOR ADVENTURES | LANCE | KRONBERGER | WASILLA | AK |
| FREELANCE OUTDOOR ADVENTURES | LANCE | KRONBERGER | WASILLA | AK |
| FRITZ GUIDING SERVICE | RYAN | FRITZ | SOLDOTNA | AK |
| FRITZ GUIDING SERVICE | RYAN | FRITZ | LINDSBORG | KS |
| FRONTIER ADVENTURES LLC | WESLEY | DAVIS | PALMER | AK |
| FRONTIER RIVER GUIDES OF ALASKA | MARTY | DECKER | ANCHORAGE | AK |

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Appendix D1.–Page 3 of 5.

| Business name | First name | Last name | City | State |
|---|------------|-----------|-------------|-------|
| GREAT LAND ADV | RICHARD | BOWEN | BURIEN | WA |
| GREAT LAND ADVENTURES LLC | RICHARD | BOWEN | BURIEN | WA |
| GREGS EZ LIMIT GUIDE SERVICE | GREGORY | BRUSH | SOLDOTNA | AK |
| GREGS EZ LIMIT GUIDE SERVICE | GREGORY | BRUSH | SOLDOTNA | AK |
| HIGH ADVENTURE AIR CHARTER | GREGORY | BELL | SOLDOTNA | AK |
| HIGH ADVENTURE AIR CHARTER INC | GREGORY | BELL | SOLDOTNA | AK |
| HITALUGA GUIDE SERVICE, LLC | CYNTHIA | OLIVER | ANCHORAGE | AK |
| IFISH ALASKA GUIDE SERVICE | PATRICK | DONELSON | WASILLA | AK |
| IFISH ALASKA GUIDE SERVICE | PAT | DONELSON | WASILLA | AK |
| INTRICATE BAY OPERATING LLC | BRIAN | HARRY | OIL CITY | PA |
| JOHN MATTHEW POTTER | JOHN | POTTER | SOLDOTNA | AK |
| JOHN POTTER | JOHN | POTTER | SOLDOTNA | AK |
| KATMAI AIR LLC | RAYMOND | PETERSEN | ANCHORAGE | AK |
| KATMAI AIR, LLC | RAYMOND | PETERSEN | KING SALMON | AK |
| KATMAILAND INC DBA ANGLERS PARADISE LODGES | RAYMOND | PETERSEN | ANCHORAGE | AK |
| KATMAILAND, INC DBA ANGLERS PARADISE LODGES | RAYMOND | PETERSEN | KING SALMON | AK |
| KENAI RIVER CHARTERS | TAYLOR | THORP | SOLDOTNA | AK |
| KENNYS ALASKA FISHING EXPERIENCE | KENNETH | WINGARD | SOLDOTNA | AK |
| KING POINT FISHING LODGE INC | HAAB | HANSHEIRI | ANCHORAGE | AK |
| KING POINT FISHING LODGE INC | HANSHEIRI | HAAB | ANCHORAGE | AK |
| KNIK RIVER OUTFITTERS | JACOB | FLETCHER | PALMER | AK |
| KNIK RIVER OUTFITTERS LLC | JACOB | FLETCHER | PALMER | AK |
| KODIAK ADVENTURES LODGE | LAWRENCE | CARROLL | BIG LAKE | AK |
| KSH FISHING CHARTERS | KEVIN | HARTMAN | WASILLA | AK |
| LAKE CREEK FISHING LODGE | JEFF | WOODWARD | ANCHORAGE | AK |
| LAKE CREEK FISHING LODGE LLC | JEFF | WOODWARD | ANCHORAGE | AK |
| LAKE MARIE LODGE, LLC | DAVID | WILSON | CHUGIAK | AK |
| LAKE MARIE LODGE, LLC | DAVID | WILSON | CHUGIAK | AK |
| LEWIS CHARTERS | DANIEL | LEWIS | WASILLA | AK |
| LIP RIPPEN CHARTERS | TIMOTHY | BROWN | WASILLA | AK |
| LITTLE RIVER ANGLERS | WALTER | ZALESKI | ANCHORAGE | AK |
| MATANUSKA TROUT FISHERS | JHAN | HADDELAND | BIG LAKE | AK |
| MCDOUGALL LODGE LLC | RON | JEWETT | SKWENTNA | AK |
| MCDOUGALL LODGE LLC | RON | JEWETT | SKWENTNA | AK |
| MILLERS RIVERBOAT SERVICE | BENJAMIN | ALLEN | WASILLA | AK |
| MILLERS RIVERBOAT SERVICE | BENJAMIN | ALLEN | WASILLA | AK |
| MOOSEHORN LODGE | ERICH | NAPFLIN | WASILLA | AK |
| MOOSEHORN LODGE | ERICH | NAPFLIN | WASILLA | AK |
| NEWHALEN LODGE | BILL | SIMS | ANCHORAGE | AK |
| NEWHALEN LODGE | BILL | SIMS | ANCHORAGE | AK |

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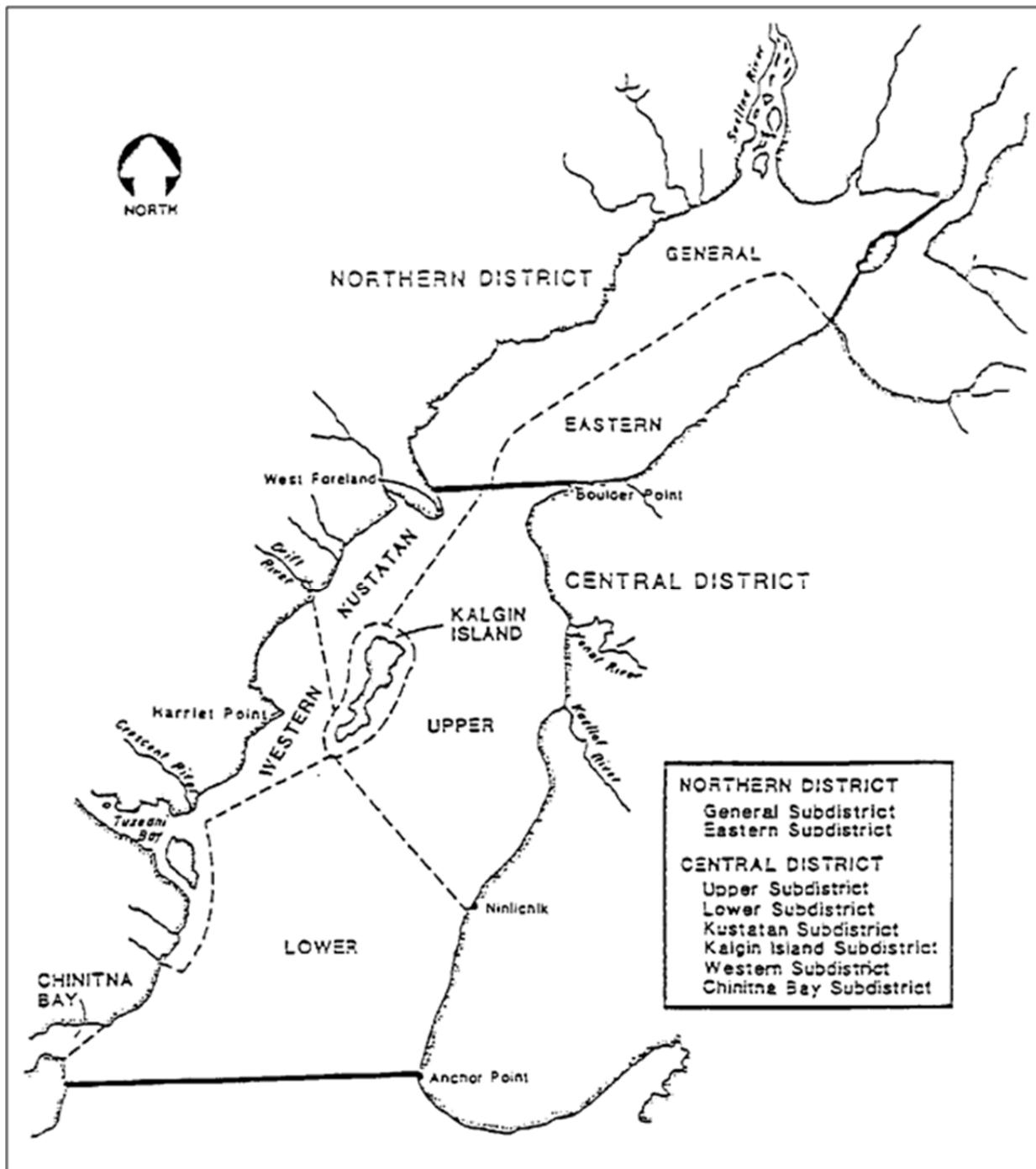
| Business name | First name | Last name | City | State |
|----------------------------------|------------|-----------|---------------|-------|
| NORTHWOODS LODGE | ERIC | JOHNSON | SKWENTNA | AK |
| NORTHWOODS LODGE | ERIC | JOHNSON | SKWENTNA | AK |
| OUZEL EXPEDITIONS INC | PAUL | ALLRED | GIRDWOOD | AK |
| PERATAS GUIDED ADVENTURES | NICK | PERATA | NIKISKI | AK |
| PERATAS GUIDED ADVENTURES | NICK | PERATA | BOISE | ID |
| PHANTOM SALMON CHARTERS | RHETT | NEALIS | TRAPPER CREEK | AK |
| PHANTOM SALMON CHARTERS | RHETT | NEALIS | TRAPPER CREEK | AK |
| QUAGLIANA'S GUIDE SERVICE | MARK | QUAGLIANA | SOLDOTNA | AK |
| QUAGLIANAS GUIDE SERVICE | MARK | QUAGLIANA | SOLDOTNA | AK |
| RAINBOW BAY RESORT INC | JERRY | PIPPEN | PEDRO BAY | AK |
| RAINBOW BAY RESORT INC. | JERRY | PIPPEN | PEDRO BAY | AK |
| RAINBOW KING LODGE | ROGER | GLASPEY | LEMOORE | CA |
| RAINBOW KING LODGE INC | RODGER | GLASPEY | ILIAMNA | AK |
| RAINBOW RIVER EXPEDITIONS | NORMAN | HAYNES | WASILLA | AK |
| REDOUBT MOUNTAIN LODGE | WAYNE | HOLM | NORTH PLAINS | OR |
| REEL FLY ADVENTUREZ | JAKE | WILLIAMS | WASILLA | AK |
| REEL FLY ADVENTUREZ, LLC | JAKE | WILLIAMS | WASILLA | AK |
| RIVERSONG LODGE, INC. | RANDOLPH | DEWAR | ANCHORAGE | AK |
| RIVERSONG LODGE, INC. | RANDOLPH | DEWAR | ANCHORAGE | AK |
| RUSSELL FISHING COMPANY, INC | DUSTIN | RUSSELL | BROOKINGS | OR |
| RUSSELL FISHING COMPANY, INC | DUSTIN | RUSSELL | BROOKINGS | OR |
| SALTERY LAKE LODGE | DOYLE | HATFIELD | KODIAK | AK |
| SHULIN LAKE LODGE | DAVE | MULLEN | PALMER | AK |
| SHULIN LAKE LODGE | DAVE | MULLEN | PALMER | AK |
| SIERRA CLUB | DAVID | PERRY | SAN FRANCISCO | CA |
| SILVER SALMON CREEK INC | DAVID | CORAY | SOLDOTNA | AK |
| SILVER SALMON CREEK LODGE | DAVID | CORAY | SOLDOTNA | AK |
| SUSITNA ADVENTURE CHARTERS | STEVEN | SCHAFFER | WILLOW | AK |
| TALAHEIM LODGE & AIR SERVICE | MARK | MILLER | ANCHORAGE | AK |
| TALAHEIM LODGE AND AIR SERVICE | MARK | MILLER | ANCHORAGE | AK |
| TALKEETNA DENALI VIEW LODGE LLC | THOMAS | REDMAN | TALKEETNA | AK |
| TALKEETNA FISHING GUIDES | GERALD | SOUSA | TALKEETNA | AK |
| TALKEETNA FISHING GUIDES | GERALD | SOUSA | TALKEETNA | AK |
| TALSTAR LODGE | RON | JEWETT | SKWENTNA | AK |
| TALSTAR LODGE LLC | JOHN | DAVIS | SKWENTNA | AK |
| TALVISTA LODGE | JONATHAN | CAMERON | SKWENTNA | AK |
| TC GUIDE SERVICE | LANCE | DESAW | WASILLA | AK |
| TC GUIDE SERVICE | LANCE | DESAW | WASILLA | AK |
| TIM CRIST ALASKAN ADVENTURES INC | TIM | CRIST | TWIN FALLS | ID |

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Appendix D1.–Page 5 of 5.

| Business name | First name | Last name | City | State |
|-----------------------------------|------------|------------|------------|-------|
| TIM CRIST ALASKAN ADVENTURES INC | TIM | CRIST | TWIN FALLS | ID |
| TO-TOY-LON RIVER LODGE, LLC | DAVID | WILSON | CHUGIAK | AK |
| TONY'S GUIDE SERVICES | ANTHONY | MANN | VALDEZ | AK |
| TONYS GUIDE SERVICE | ANTHONY | MANN | VALDEZ | AK |
| TOP GUIDE | CARLOS | LAGOMASINO | KENAI | AK |
| TOWER ROCK LODGE | MICHAEL | TUHY | SOLDOTNA | AK |
| TOWER ROCK LODGE | MICHAEL | TUHY | SOLDOTNA | AK |
| TRAPPER TIM LLC | TIM | BUECHLE | TALKEETNA | AK |
| TRAPPER TIM LLC | TIM | BUECHLE | TALKEETNA | AK |
| TRI RIVER CHARTERS | ROBERT | MEALS | TALKEETNA | AK |
| TRI RIVER CHARTERS | ROBERT | MEALS | TALKEETNA | AK |
| TRIPLE C OUTFITTERS ALSKA,LLC | CLIFFORD | SMITH,JR. | WASILLA | AK |
| TROPHY CATCH CHARTERS | WILLIAM | BOOTH | PALMER | AK |
| TROPHY CATCH CHARTERS | WILLIAM | BOOTH | PALMER | AK |
| TURNERS GUIDE SERVICE | RALPH | TURNER | SUTTER | CA |
| TURNERS GUIDE SERVICE | RALPH | TURNER | SUTTER | CA |
| UNITED STATES ARMY | NULL | US ARMY | NULL | NULL |
| VALLEY RIVER CHARTERS | MATTHEW | PETERSON | WASILLA | AK |
| VALLEY RIVER CHARTERS | MATTHEW | PETERSON | ANCHORAGE | AK |
| WALLYS GUIDE SERVICE | WALTER | MARTIN | KENAI | AK |
| WESTERN GUIDE SERVICE | RODNEY | SMALL | KENAI | AK |
| WESTERN GUIDE SERVICE | RODNEY | SMALL | KENAI | AK |
| WET AND WILD ALASKA FISHING | JEFF | MOORE | STERLING | AK |
| WET AND WILD ALASKA FISHING | JEFF | MOORE | STERLING | AK |
| WILDERNESS PLACE LODGE | CORY | WENDT | ANCHORAGE | AK |
| WILDERNESS PLACE LODGE | JASON | ROCKVAM | ANCHORAGE | AK |
| WITHIN THE WILD ADVENTURE COMPANY | CARL | DIXON | ANCHORAGE | AK |
| WOMENS FLYFISHING | CECILIA | KLEINKAUF | ANCHORAGE | AK |
| WOMENS FLYFISHING | CECILIA | KLEINKAUF | ANCHORAGE | AK |
| YENTNA RIVER SERVICES | ROGER | PHILLIPS | SKWENTNA | AK |
| YENTNA RIVER SERVICES | ROGER | PHILLIPS | SKWENTNA | AK |
| YENTNA SETTERS | JACOB | WILSON | ANCHORAGE | AK |
| YENTNA SETTERS | JACOB | WILSON | ANCHORAGE | AK |
| YENTNA STATION ROADHOUSE | DANIEL | GABRYSZAK | WASILLA | AK |
| YENTNA STATION ROADHOUSE | DANIEL | GABRYSZAK | WASILLA | AK |

**APPENDIX E: UPPER COOK INLET COMMERCIAL
SALMON FISHERY**



Appendix E1.—Upper Cook Inlet commercial salmon fishing districts.

Appendix E2.—Upper Cook Inlet commercial salmon harvest from all Upper Cook Inlet districts, 1954-2012.

| Year | Chinook | Sockeye | Coho | Pink | Chum | Total |
|------|---------|-----------|---------|-----------|-----------|------------|
| 1966 | 8,544 | 1,852,114 | 289,837 | 2,005,745 | 532,756 | 4,688,996 |
| 1967 | 7,859 | 1,380,062 | 177,729 | 32,229 | 296,837 | 1,894,716 |
| 1968 | 4,536 | 1,104,896 | 468,160 | 2,276,993 | 1,107,903 | 4,962,488 |
| 1969 | 12,386 | 691,815 | 100,684 | 32,499 | 267,686 | 1,105,070 |
| 1970 | 8,336 | 732,572 | 275,205 | 814,760 | 750,774 | 2,581,647 |
| 1971 | 19,765 | 636,289 | 100,362 | 35,590 | 323,945 | 1,115,951 |
| 1972 | 16,086 | 879,811 | 80,896 | 628,566 | 626,414 | 2,231,773 |
| 1973 | 5,194 | 670,098 | 104,420 | 326,184 | 667,573 | 1,773,469 |
| 1974 | 6,596 | 497,185 | 200,125 | 483,730 | 396,840 | 1,584,476 |
| 1975 | 4,787 | 684,751 | 227,376 | 336,330 | 951,588 | 2,204,832 |
| 1976 | 10,865 | 1,664,149 | 208,663 | 1,256,728 | 469,180 | 3,609,585 |
| 1977 | 14,790 | 2,052,291 | 192,593 | 553,855 | 1,233,436 | 4,046,965 |
| 1978 | 17,299 | 2,621,421 | 219,193 | 1,688,442 | 571,779 | 5,118,134 |
| 1979 | 13,738 | 924,406 | 265,164 | 72,980 | 649,758 | 1,926,046 |
| 1980 | 13,798 | 1,573,588 | 271,416 | 1,786,421 | 387,815 | 4,033,038 |
| 1981 | 12,240 | 1,439,262 | 484,405 | 127,143 | 831,977 | 2,895,027 |
| 1982 | 20,870 | 3,259,864 | 792,224 | 790,644 | 1,432,940 | 6,296,542 |
| 1983 | 20,634 | 5,049,733 | 516,322 | 70,327 | 1,114,858 | 6,771,874 |
| 1984 | 10,062 | 2,106,714 | 449,993 | 617,452 | 680,726 | 3,864,947 |
| 1985 | 24,088 | 4,060,429 | 667,213 | 87,828 | 772,849 | 5,612,407 |
| 1986 | 39,254 | 4,792,072 | 757,353 | 1,300,939 | 1,134,817 | 8,024,401 |
| 1987 | 34,449 | 9,469,248 | 449,479 | 109,389 | 348,937 | 10,416,502 |
| 1988 | 29,080 | 6,843,833 | 560,948 | 471,076 | 710,615 | 8,615,552 |
| 1989 | 26,737 | 5,011,121 | 339,818 | 67,441 | 122,051 | 5,567,168 |
| 1990 | 16,105 | 3,604,259 | 501,643 | 603,434 | 351,123 | 5,076,564 |

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Appendix E2.–Page 2 of 2.

| Year | Chinook | Sockeye | Coho | Pink | Chum | Total |
|----------------|---------|-----------|---------|---------|---------|------------|
| 1991 | 13,542 | 2,178,331 | 426,487 | 14,663 | 280,223 | 2,913,246 |
| 1992 | 17,171 | 9,108,353 | 468,930 | 695,861 | 274,303 | 10,564,618 |
| 1993 | 18,871 | 4,755,329 | 306,882 | 100,934 | 122,770 | 5,304,786 |
| 1994 | 19,962 | 3,565,586 | 583,793 | 523,434 | 303,177 | 4,995,952 |
| 1995 | 17,893 | 2,951,827 | 446,954 | 133,575 | 529,422 | 4,079,671 |
| 1996 | 14,306 | 3,888,922 | 321,668 | 242,911 | 156,501 | 4,624,308 |
| 1997 | 13,292 | 4,176,738 | 152,404 | 70,933 | 103,036 | 4,516,403 |
| 1998 | 8,124 | 1,219,242 | 160,660 | 551,260 | 95,654 | 2,034,940 |
| 1999 | 14,383 | 2,680,510 | 125,908 | 16,174 | 174,541 | 3,011,516 |
| 2000 | 7,350 | 1,322,482 | 236,871 | 146,482 | 127,069 | 1,840,254 |
| 2001 | 9,295 | 1,826,833 | 113,311 | 72,559 | 84,494 | 2,106,492 |
| 2002 | 12,714 | 2,773,118 | 246,281 | 446,960 | 237,949 | 3,717,022 |
| 2003 | 18,490 | 3,476,159 | 101,756 | 48,789 | 120,767 | 3,765,961 |
| 2004 | 26,922 | 4,926,774 | 311,056 | 357,939 | 146,164 | 5,768,855 |
| 2005 | 27,667 | 5,238,672 | 224,657 | 48,419 | 69,740 | 5,609,155 |
| 2006 | 18,029 | 2,192,730 | 177,853 | 404,111 | 64,033 | 2,856,756 |
| 2007 | 17,625 | 3,316,779 | 177,339 | 147,020 | 77,240 | 3,736,003 |
| 2008 | 13,333 | 2,380,135 | 171,869 | 169,368 | 50,315 | 2,785,020 |
| 2009 | 8,750 | 2,045,794 | 153,210 | 214,321 | 82,811 | 2,504,886 |
| 2010 | 9,900 | 2,828,342 | 207,254 | 292,671 | 228,662 | 3,566,829 |
| 2011 | 11,248 | 5,277,440 | 95,276 | 34,030 | 129,202 | 5,547,196 |
| 2012 | 2,526 | 3,133,801 | 106,772 | 469,411 | 269,585 | 3,982,095 |
| Average | | | | | | |
| 1966–2011 | 15,449 | 2,904,910 | 301,596 | 472,038 | 446,027 | 4,140,020 |
| 1977–2011 | 17,486 | 3,569,667 | 333,662 | 373,708 | 394,336 | 4,689,001 |
| 2002–2011 | 16,468 | 3,445,594 | 186,655 | 216,363 | 120,688 | 3,985,768 |

Note: Commercial salmon catch data for 1966–2012 from Appendix B6 in Shields and Dupuis (2013).
Catch statistics prior to 2012 reflect minor adjustments to harvest database.

**APPENDIX F.
ACCESS PROJECTS**

Boating Projects

- 1) Signage identifying public access on an as-needed basis. Also providing small road, trail, and site maintenance on an as-needed basis.
- 2) Susitna Landing Facility Operations – In March of 2011, a contract for a new concessionaire to operate and maintain Su Landing Boat Launch Facility was awarded to JB Bear Cache Inc. (Jeff Boatright). To date Mr. Boatright has been doing an exceptional job operating and maintaining the ADG&G Boat Launch/Camping Facility.
- 3) Susitna Landing Operation Maintenance and Small Development Project (~\$110K FY12 Funding Authority). This project will provide funding necessary to continue operations, maintenance and management of the ADF&G-owned Susitna Landing Boat Launch Facility.
- 4) Rocky Lake SRS Boat Launch Renovation Project (\$170K FY10 Funding Authority). This is a Cooperative project with DNR, DPOR to upgrade/repair the existing gravel launch and parking lot. This project would include renovating the launch with installation of concrete planks and expansion of the parking area. Presently, the survey is complete, site and design plan, and permitting is complete and construction for the project is scheduled for the summer of 2014.
- 5) Big Lake South SRS Boat Launch Renovation Project (\$135K FY11 Funding Authority) Cooperative project with DNR, DPOR the project will replace old, deteriorating “hook & eye” concrete ramp planks. Presently, the design plan is and permitting is 100% complete and construction for the project is scheduled for the summer of 2013.
- 6) Big Lake North SRS Boat Launch Renovation Project (\$100K FY12 Funding Authority). Cooperative project with DNR DPOR, project will replace old, deteriorating “hook & eye” concrete ramp planks. Presently, the design plan is and permitting is at 100% complete. Construction for the project is scheduled for the summer of 2013.
- 7) Homer Boat Launch Facility and Floating Dock Renovation Project – Phase 1 (\$350K FY12 Funding Authority). Multi-year cooperative Project with the City of Homer (City) and ADF&G for the repair of the City concrete plank boat launch ramps and mooring dock. Total project cost is estimated at \$3.5 Mil. This request will pay for Phase I activities (preliminary design and permitting).

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Boating and Non-boating Projects

- 1) Stocked & Wild Lake Access Site Evaluation Project. South-Central (eighty-one stocked lakes) and Kenai Peninsula (thirty-eight stocked Lakes) area initially started assessment of stocked lake sites in the summer of 2010 and continues to evaluate lakes in the area through 2011 - 2012. Ultimately will add all legal access documentation signifying each easement classification and will list information on the ADF&G Access web site.

Annual Small Access Maintenance

- 1) LSPUF Operations and Maintenance Contract (~\$104.3K – FY11, ~\$105.4K – FY12, ~\$157K – FY13) – Provide funds via RSA out of Small Access Maintenance Budget to DPOR to operate and manage the facility.
- 2) Grounds Cleaning/Refuse Service (~\$21.565K FY11 – FY13) - Service for Sheep & Caswell creeks, Bonnie Lake, & Eklutna Tailrace.
- 3) Toilet Service, Portable and Vault Service (~\$13.91K FY11 – FY13) - Caswell (\$2.1K) and Sheep creeks (\$360), Eklutna tailrace (~\$10.17K), Talkeetna River (\$380), Su Landing (\$360), and Bonnie Lake (\$540).
- 4) Installation of Public Access – Stocked Lake Signage – an ADF&G Technician continues to do an excellent job posting and maintaining signs. Many signs were repaired and posted throughout this period, including signage at Little Susitna Public Use Facility, Susitna and Talkeetna Landing, Barley, Boot, Caswell, 180-Mile, Kalmbach, and Slipper Lakes which helped direct the public and mitigate landowner trespass concerns.
- 5) Land Disputes – Land/access research was conducted on numerous angler access sites and public lake easements including Butterfly, Centennial, Crooked, Farmer, Johnson, Weiner, and Wolverine Lake in this area.

Appendix F2.–Completed access projects for Northern Cook Inlet Management Area, 2010–2012.

| Location | Project/Manager | Cost | Completed |
|---|---|----------------|------------------------------------|
| Non-Boating Projects | | | |
| 1. Maintenance of existing SFD angler access sites. | Toilets, waste/refuse removal, cleaning services, road grading and repairs, signage, and miscellaneous repairs. | \$53,375.00 | Seasonal 2010–2013 (May-September) |
| 2. Sheep Creek | Sheep Creek trail/fence upgrade. | \$7,500.00 | September 2012 |
| 3. Eklutna Tailrace flood disaster repairs. | FEMA Flood disaster DR-4094-AK damage repair project (i.e. debris removal) was completed at Eklutna Tailrace day-use access site in fall of 2012. | \$2,400.00 | November 2012 |
| 4. Legal Access Research | Completed access research and resolved issues at multiple sites including in-field work investigating/defining legal access easements, e.g. historical trails verses granted/dedicated access etc. | \$0.00 | 2010-2012 |
| 5. Eklutna, Sheep, and Caswell Creek AWT Position | Provide funds via RSA to AWT position to provide patrols of the facility for Public safety. | \$10,000.00 | Seasonal 2010-2012 (May-September) |
| TOTAL | | \$73,275.00 | |
| Boating Projects | | | |
| 1. Maintenance of existing SFD boating access sites. | Toilets, waste removal, cleaning services, dredging, road grading and repairs, signage, and miscellaneous repairs. | \$5,076.00 | Seasonal 2010-2012 (May-September) |
| 2. Su Landing/Kashwitna River Septic Repair Project (Small Development Grant) | Emergency repairs of septic lift station, associated repairs included excavating, electrical hook ups, replacing septic tank, pumps and lift station, capping the tank with concrete, and clearing (clean-out) of sewer lines. | \$41,600.00 | June 2011 |
| 3. Talkeetna maintenance dredge. | Dredge boat launch area to provide sufficient water for operation and safe boat navigation. | \$2,400.00 | April 2012 |
| 4. LSPUF operations. | Funded DPOR for 2010/2012 maintenance and operations. | \$104,288.00 | July 2010 |
| | | \$105,400.00 | July 2011 |
| | | \$156,957.00 | July 2012 |
| 5. Pillars Mooring Dock Renovation Project | Cooperative project with DNR DPOR, to design and construct new mooring floats at Pillar Boat Launch on the Kenai River. That will better accommodate boaters utilizing this high-use boat launch facility. | \$250,000.00 | June 2012 |
| LSPUF Vault Latrine Replacement Project | Cooperative project with DNR DPOR, to replace outdated wooden vault Latrines with concrete vault latrines. | \$180,000.00 | August 2011 |
| 6. Anchor River Tractor Launch Improvement Project | Cooperative project with DNR DPOR, to reorganize and pave the parking and staging area, install traffic control lines, concrete parking bumpers, vehicle boat staging lanes, traffic control signs and log bollards, an orientation/fee station kiosk and elevated concessionaire deck, handicap parking spaces and an adequate turnaround area for vehicles with trailers. | \$240,000.00 | October 2012 |
| Su Landing / Kashwitna emergency flood repair. (Severe storm 4094 AK) | Completed emergency repairs at boat launch facility due to damage from high water event. | \$20,500.95 | Sept. – Oct. 2012 |
| 9. Talkeetna River emergency flood repairs. (Severe Storm 4094 AK) | Completed emergency repairs at boat launch facility due to flood damage from high water event. | \$7,200.00 | Sept. – Oct. 2012 |
| 10. LSPUF emergency flood repairs. (Severe Storm 4094) | Completed emergency repairs at boat launch facility due to flood damage from high water event. | \$1,789.10 | Sept. – Oct. 2012 |
| TOTAL | | \$1,115,211.05 | |

Note: DNR DPOR = Department of Natural Resources Division of Parks and Outdoor Recreation, SFD = Division of Sport Fish, LSPUF = Little Susitna Public Use Facility, AWT = Alaska Wildlife Troopers.

Appendix F3.–Proposed access projects for Northern Cook Inlet Management Area in 2010–2012.

| Location | Project/Manager | Estimated Cost | Funding Year |
|--|--|-----------------------------|-----------------------------|
| Nonboating | | | |
| 1. Region II Small Access Maintenance | Site maintenance contracts, signage, road grading & repair, and miscellaneous repair. | \$50,000.00 | SAM Yearly |
| 2. Eklutna Tailrace | Install double vault latrine to meet the increased demand to the newly designed and upgraded facility. | \$60,000.00 | Regional funding commitment |
| 3. Sheep Creek Stairwell Renovation and Vault Latrine Replacement. | Cooperative project with DPOR with ADF&G for the removal/replacement of existing vault latrines and renovation of trail. | \$253,500.00 | Regional funding commitment |
| 4. Wolverine Lake access parcels | Anchorage Legal Access Shop and DNR MLW need to resolve dispute on RS2477 legal access trail with discontented property owners (Moore's). To proceed possibly need AG's office involvement to step up process and spell-out legal determination in a registered letter to the Moore's. Once legal access is reconciled present proposal to purchase approximately a 10' x 60' access corridor/easement through MHTLO property from one of two lakefront parcels (~6.25 acres) to insure continued public access to lake. This portion of the project is contingent upon securing/finalizing legal access to the lots by way of the RS2477 easement. Cost - approximate estimate \$25K total for survey and corridor/easement purchase. | \$80,000.00 | Regional funding commitment |
| TOTAL | | \$425,500.00 | |
| Boating Projects ^a | | | |
| Location | Project/Manager | Estimated cost | Funding year |
| 1. Region II Small Access Maintenance | Road and site maintenance, annual Su Landing contract and annual dredge work. | \$83,000.00 | SAM/CIP |
| 2. Little Susitna River Public Use Facility | RSA to fund DNR DPOR for LSPUF operation. | \$105,400.00 ^c | SAM FY11 |
| 3. Homer Harbor Launch Facility and Floating Dock Project | Multi-year funded cooperative project with the City of Homer and ADF&G for the renovation/improvement project at existing boat launch facility. Project includes replacing existing launch planks and mooring floats. | \$3,670,000.00 | CIP FY10,11,12 |
| 4. Stocked and Wild lakes | Conduct access site surveys. | \$5,000 | SAM |
| 5. Susitna Landing and Small Development Project | O&M This project is to provide for continued high quality facility maintenance and operations of the Susitna Landing Boat Launch Facility by utilizing a private concessionaire (Jeff Boatright) salaried from this grant to staff and manage the facility. The project would also provide for construction of small development projects to provide a safer and secure facility. | \$110,000.00 \$65,000.00 | CIP FY12,13 |
| TOTAL | | \$3,933,000.00 | |

^a Completed access projects are listed in Appendix F2.

^b CIP=Capitol Improvement Project; DNR = Division of Natural Resources, MLW = Division of Mining, Land, and Water; DPOR=Division of Parks & Outdoor Recreation; FY=Fiscal Year; SFD=Division of Sport Fish; LSPUF=Little Susitna Public Use Facility; MHTLO= State of Alaska Mental Health Trust Land Office; MSB=Mat-Su Borough; RSA= Reimbursable Service Agreement; SAM=Small Access Maintenance; and SRA=State Recreation Area (managed by DPOR)

^c RSA - Reimbursable Service Agreement amount fluctuates year-to-year depending on revenue receipt income received.

Appendix F4.–Northern Cook Inlet Management Area stocked lakes access summary.

| Lake | Access Route | Easement Classification ^a | Parking Area | Trail Condition | % Public Shoreline | Comments |
|----------------|--------------|--------------------------------------|--------------------------------------|--------------------------------|--------------------|--|
| Barley | good | PUE DNR | 5 vehicle gravel | cleared section line | 1.0% | 100 yd. walk in |
| Bearpaw | good | PUA | 5 vehicle gravel | gravel road to lake | 50% | designated public park MSB plat maps |
| Benka | good | PUA | 2 vehicle gravel | access rd. ends at lake | 0.5% | no camping – home owner lease |
| Beverly | good | S/L (33') | 5 vehicle gravel | swampy, ATV or foot access | 15% | 33' access at "Y" in trail to Kalmbach Lake; State land |
| Big | good | SRS | 20 vehicle gravel | concrete boat launches | 2% | 2 State Rec. Sites; camping |
| Big Beaver | good | Rd. ROW | 5 vehicles gravel | MSB gravel road and launch | 1% | MSB Road ROW |
| Big No Luck | canoe trail | SRA DNR | 15 vehicle gravel | canoe trail: 1.5 miles | 100% | Nancy Lake SRA; camping |
| Bruce | good | PUE (60') MSB | 5 vehicle gravel limited to road ROW | cleared easement | 1% | shoreline muskeg; improve parking |
| Canoe | good | SRA DNR | 6 vehicle gravel | packed gravel | 21% | dock, picnic tables, outhouse; K/B Rec. |
| Carpenter | good | PUE (150') MSB | 3 vehicle, dirt | gravel access rd. ends at lake | 0.70% | gravel boat launch; no camping |
| Christiansen | good | PUE MSB Park | 6 vehicle gravel | access rd. ends at lake | 0.40% | gravel boat launch; no camping |
| Coyote | good | PUE (50') MSB | 2 vehicle gravel | good | 100% | borough blocked rd. access to park, very poor shape |
| Crystal | good | PUE (60') MSB | 10 vehicle gravel | access rd. ends at lake | 0.40% | vehicle access blocked; walk in and no camping |
| Dawn | good | PUE MSB Park | 8 vehicle gravel | needs boardwalk | 5% | designated public park: Tract C |
| Diamond | good | PUE (50') | 6 vehicle gravel | foot trail | 36% | ADL #225903 – 100 yd. walk in |
| Echo | good | Rd. ROW 100' Glenn Hwy | 4 vehicle paved pull-out | signed, gravel | 15% | shoreline trees, brush; private access |
| Farmer | good | 50' Sec/Line | 5 vehicle gravel | good | 1% | shoreline muskeg; |
| Finger | good | SRA | 30 vehicle gravel | access rd. ends at lake | 5% | State Rec. Site, camping & fishing platforms ADA accessible |
| Florence | good | S/L (66') MSB | 2 vehicle pull-out ROW | good | 0.80% | no camping |
| Homestead | need signs | ROW Ease. 50' MSB dedicated access | limited to access rd. | access rd. ends at lake | 1% | shoreline swampy; no camping |
| Honeybee | need signs | PUA MSB | limited to access rd. | needs work, swampy | 6% | adjacent State land |
| Ida | need signs | PUE (20') | 4 vehicle gravel | steep, gravel | 0.1% | no camping |
| Irene | good | SRA | 4 vehicle gravel | gravel | 15% | K/B Rec. Area |
| Kalmbach | good | S/L (33') MSB | 5 vehicle gravel | swampy, ATV or foot access | 20% | Sec/Line Ease. to trail on State land |
| Kashwitna | good | Rd. ROW | 30 vehicle paved | access is by lake | 10% | shoreline muskeg along ROW |
| Kepler/Bradley | good | SRA | 30 vehicle gravel | marked, gravel | 89.50% | Public Use Access Easement for launch and parking, private camping |
| Klaire | good | SRA | 30 vehicle gravel | 0.4 mile; needs sign | 100% | brushy shoreline; K/B Rec. Area |
| Knik | good | PUA | 2 vehicle | access rd. ends at lake | 0.60% | no camping |
| Lalen | good | PUE (20') MSB | 2 vehicle gravel | access rd. ends at lake | 0.20% | gravel boat launch; no camping |
| Long (Mile 86) | good | SRA | 15 vehicle gravel | access rd. ends at lake | 90% | Vacant/abandoned - State Rec. Site; camping/no amenities |
| Long (K/B) | good | SRA | 7 vehicle gravel limited to road ROW | packed dirt, steep | 100% | hook-&-release only; K/B Rec. Area |
| Little Lonely | good | 60' PUE to S/L MSB | ROW | short, dirt road | 0.50% | access road. can be 4WD; no camping |
| Lorraine | good | MSB property | 6 vehicle gravel | muddy, rutted by | 95% | surrounded by borough land |
| Loon | good | S/L (50') | 5 vehicle gravel | access area gravel | 0.40% | no camping |

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Appendix F4.–Page 2 of 2.

| Lake | Access Route | Easement Classification ^a | Parking area | Trail condition | % Public Shoreline | Comments |
|-----------------|--------------|--------------------------------------|--|---|--------------------|---|
| Lucille | good | PUE City of Wasilla | 3 vehicle gravel | access road. ends at lake | 4% | 2 access sites; camping and parking at Lucille Park |
| Lynne | good | PUA | 2 vehicle dirt | access rd. ends at lake | 2% | access road.; 2% is State land |
| Marion | good | PUA | 4 vehicle gravel | steep dirt, some erosion | 12% | adj. to MSB land docks, picnicking outhouse; K/B Rec Area |
| Matanuska | good | SRA | 30 vehicle gravel | short gravel | 35% | |
| Meirs (McLeod) | good | PUE | 8 vehicle, can be muddy | steep, dirt | 1% | no camping |
| Memory | good | S/L (33') MSB | 4 vehicle, gravel | access road. ends at lake | 0.30% | no camping |
| Mile 180 | good | Rd. ROW | 10 vehicle, paved pullouts | pullouts beside lake | 40% | lakeshore muskeg |
| Morvro | fair | S/L (33') MSB | limited to rd. ROW | swampy, foot trail | 0.30% | needs work with trail and parking |
| North (Montana) | Friend good | Rd. ROW MSB | 10 vehicle gravel cross Parks | short trail to outlet | 0.50% | access ROW |
| Prator | good | PUA | 4 vehicle gravel | access rd. ends at lake | 2.0% | Castle Public Park; no camping |
| Ravine | fair | PUA DNR | 4 vehicle gravel | steep, worn | 50.0% | adj. State land |
| Reed | good | PUE (10') MSB | limited to rd. ROW | repairs made to drop-off, need timber steps | 0.2% | improve parking; no camping |
| Rocky | good | SRS | 30 vehicle gravel | access rd. ends at lake | 5.0% | State Rec. Site; camping |
| Ruby | ATV, signs | no Trail Easement (50') | 15 vehicle gravel | 5 mile ATV trail | 40.0% | new surveyed trail, adj. state land |
| Seventeen mile | good | PUA | 8 vehicle gravel | access rd. ends at lake | 0.6% | no camping |
| Seymour | good | S/L (83') MSB | 4 vehicle gravel | access rd. ends at lake | 0.5% | MSB land adjacent |
| Slipper (Eska) | good | Rd. ROW MSB | 20 vehicle gravel | access rd. ends at lake | 75.0% | last 1/4 mile rough |
| South (Montana) | Friend good | Rd. ROW MSB | 10 vehicle gravel | short, dirt | 10.0% | shoreline swampy along ROW |
| South Rolly | good | SRS DNR | 20 vehicle gravel | access rd. ends at lake | 100.0% | State Rec. Site; camping |
| Tigger | good | PUE | 5 vehicle gravel | foot trail, needs sign | 100.0% | new access acquired from MSB |
| Twin Island | fair | State prop. | 4 vehicle gravel | swampy | 0.6% | MSB prop conflict/mental health land |
| Vera | good | S/L (50') MSB | 6 vehicle dirt | soft tundra | 0.3% | no camping |
| Victor | good | SRA | 30 vehicle gravel | dirt, some mud | 100% | brushy shoreline; K/B Rec. Area |
| Visnaw | good | S/L (33'') MSB | 3 vehicle gravel | access rd. ends lake | 0.4% | no camping |
| Walby | good | PUA MSB | 6 vehicle gravel | access rd. ends lake | 1% | no camping |
| Wiener | good | Rd. ROW | (2) 4 vehicle pullouts 2 vehicle gravel | pullouts beside lake | 25% | access along Glenn Hwy. |
| West Sunshine | good | PUE (20') MSB | limited rd. ROW | steep, dirt | 0.4% | no camping |
| Willow | good | S/L (50') MSB | 30 vehicle gravel | access rd. ends lake | 0.4% | access by Willow Comm. Center |
| Wishbone | fair | State prop. | 4 vehicle dirt | rough 4WD only | 100% | hook-&-release only, State land |
| Wolf | good | SRA | 10 vehicle gravel | short dirt | 33% | vacant/abandoned SRA; no camping |
| "X" | good | PUA MSB | 6 vehicle gravel | access trail to lake | 100% | hook-&-release only; State land |
| "Y" | good | Rd. ROW | 2 vehicle dirt | short, steep | 100% | brushy, State land |

^a ROW = right of way

S/L = section line easement (feet wide)

PUA = dedicated (or reserved) public use area (parcel platted for public recreation) PUE = dedicated public use easement (feet wide)

SRA = state recreation area (parcel managed by State Parks) MSB = Matanuska Susitna Borough, DNR = Dept. Natural Resources.

**APPENDIX G:
ADF&G INFORMATION AND EDUCATION PROGRAM 2011–
2012**

Appendix G1.—Classroom visits and presentations conducted for ADF&G Information and Education Program 2011–2012.

| Date | School | No. Students | Age Group | Subject |
|------------|--------------------------------|--------------|-------------|----------------------------------|
| 10/3/2011 | Swanson | 50 | Elementary | Salmon Dissection |
| 10/3/2011 | Larson | 60 | Elementary | Life Cycle Presentation |
| 10/4/2011 | Palmer | 19 | High School | Salmon Dissection |
| 10/4/2011 | Cottonwood Creek | 56 | Elementary | Salmon Dissection |
| 10/5/2011 | Butte | 50 | Elementary | Salmon Dissection |
| 10/6/2011 | Louise Farm School | 9 | Elementary | Watershed Presentation |
| 10/6/2011 | Machetanz | 55 | Elementary | Life Cycle Presentation |
| 10/7/2011 | Larson | 60 | Elementary | Salmon Dissection |
| 10/7/2011 | Talkeetna | 35 | Elementary | Salmon Dissection |
| 10/10/2011 | Pioneer Peak | 50 | Elementary | Life Cycle Presentation |
| 10/10/2011 | Beryozova | 20 | Elementary | Life Cycle Presentation |
| 10/11/2011 | Pioneer Peak | 50 | Elementary | Salmon Dissection |
| 10/12/2011 | Big Lake | 134 | Elementary | Salmon Dissection |
| 10/13/2011 | Snowshoe | 62 | Elementary | Salmon Dissection |
| 10/13/2011 | Swanson | 50 | Elementary | Life Cycle Presentation |
| 10/14/2011 | Shaw | 70 | Elementary | Salmon Dissection |
| 10/14/2011 | Finger Lake | 42 | Elementary | Salmon Dissection |
| 10/17/2011 | Sherrod | 180 | Elementary | Life Cycle Presentation |
| 10/17/2011 | Swanson | 50 | Elementary | Watershed Presentation |
| 10/18/2011 | Sherrod | 180 | Elementary | Salmon Dissection |
| 10/19/2011 | Houston | 60 | High School | Salmon Dissection |
| 10/21/2011 | Meadow Lakes | 65 | Elementary | Salmon Dissection |
| 10/24/2011 | Office Day | | | Rod Loaner Program |
| 10/26/2011 | Knik | 75 | Elementary | Watershed Presentation |
| 10/27/2011 | Louise Farm School | 9 | Elementary | Salmon Dissection |
| 10/27/2011 | Machetanz | 55 | Elementary | Salmon Dissection |
| 10/28/2011 | Knik | 130 | Elementary | Salmon Dissection |
| 10/28/2011 | Larson | 60 | Elementary | Watershed Presentation |
| 5/10/2011 | Salmon Celebration all schools | 999 | Elementary | Salmon release at Matanuska Lake |
| Total | | 2,735 | | |

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| Date | School | No. Students | Age Group | Subject |
|------------|--------------------------------|--------------|-------------|----------------------------------|
| 10/3/2012 | Swanson | 50 | Elementary | Life Cycle Presentation |
| 10/3/2012 | Larson | 60 | Elementary | Life Cycle Presentation |
| 10/4/2012 | Palmer | 19 | High School | Salmon Dissection |
| 10/4/2012 | Cottonwood Creek | 56 | Elementary | Salmon Dissection |
| 10/5/2012 | Butte | 50 | Elementary | Salmon Dissection |
| 10/6/2012 | Louise Farm School | 9 | Elementary | Life Cycle Presentation |
| 10/6/2012 | Machetanz | 55 | Elementary | Life Cycle Presentation |
| 10/7/2012 | Talkeetna | 31 | Elementary | Salmon Dissection |
| 10/10/2012 | Pioneer Peak | 52 | Elementary | Life Cycle Presentation |
| 10/10/2012 | Beryozova | 20 | Elementary | Watershed Presentation |
| 10/11/2012 | Pioneer Peak | 52 | Elementary | Salmon Dissection |
| 10/12/2012 | Finger Lake | 32 | Elementary | Life Cycle Presentation |
| 10/12/2012 | Big Lake | 128 | Elementary | Salmon Dissection |
| 10/13/2012 | Snowshoe | 62 | Elementary | Salmon Dissection |
| 10/13/2012 | Swanson | 50 | Elementary | Life Cycle Presentation |
| 10/14/2012 | Shaw | 70 | Elementary | Salmon Dissection |
| 10/14/2012 | Finger Lake | 42 | Elementary | Salmon Dissection |
| 10/17/2012 | Sherrod | 180 | Elementary | Life Cycle Presentation |
| 10/17/2011 | Swanson | 50 | Elementary | Life Cycle Presentation |
| 10/19/2012 | Houston | 60 | High School | Salmon Dissection |
| 10/19/2012 | Sherrod | 180 | Elementary | Salmon Dissection |
| 10/21/2012 | Beryozova | 20 | Elementary | Salmon Dissection |
| 10/21/2012 | Meadow Lakes | 65 | Elementary | Salmon Dissection |
| 10/26/2012 | Knik | 130 | Elementary | Watershed Presentation |
| 10/27/2012 | Louise Farm School | 9 | Elementary | Salmon Dissection |
| 10/27/2012 | Machetanz | 55 | Elementary | Salmon Dissection |
| 10/28/2012 | Knik | 130 | Elementary | Salmon Dissection |
| 10/28/2012 | Larson | 60 | Elementary | Salmon Dissection |
| 5/11/2012 | Salmon Celebration all schools | 939 | Elementary | Salmon release at Matanuska Lake |
| Total | | 2,716 | | |

**APPENDIX H.
EMERGENCY ORDERS**

1991

Emergency Orders:

8. E.O. No. 2-SS-2-27-91 closed to fishing that portion of the Little Susitna River from the fish counting weir located at River Mile 32.5 downstream for a distance of 1,500 feet. Effective July 27 through September 14, 1991.
9. E.O. No. 2-RS-1-29-91 closed sockeye salmon fishing in all waters north of the latitude of Anchor Point. Effective 7:00 a.m. July 26 through December 31, 1991.
10. E.O. No. 2-RS-2-33-91 opened the Fish Creek personal use dip net fishery. Effective July 30 through August 9, 1991.
11. E.O. No. 2-RS-2-34-91 reopened the Little Susitna River drainage and all freshwater drainages of Knik Arm to fishing for sockeye salmon. Effective noon, July 29 through December 31, 1991.
12. E.O. No. 2-RS-2-36-91 rescinded E.O. No. 2-RS-1-29-91, thereby reopening recreational sockeye salmon fisheries within waters of the Kenai Peninsula and Susitna-West Cook Inlet regulatory areas and marine waters of Cook Inlet north of Anchor Point. Effective 7:00 a.m. August 2 through December 31, 1991.
13. E.O. No. 2-CS-2-38-91 closed the Eklutna Power Plant tailrace to sport fishing from the Old Glenn Highway downstream to department markers placed approximately 100 yards upstream of the confluence of the tailrace and the Knik River. Effective noon, August 6 through December 31, 1991.
14. E.O. No. 2-SS-2-42-91 increased bag and possession limits to 5 coho salmon at the Little Susitna River downstream from the department's salmon counting weir at River Mile 32.5. Effective noon, August 14 through December 31, 1991.

1992

Emergency Orders:

5. E.O. No. 2-RS-2-21-92 opened the Fish Creek personal use dip net fishery. Dip net fishing was allowed for 3 consecutive days followed by a 1 day closure on a continuing basis. Effective 6:00 a.m. July 23 through August 6, 1992.
6. E.O. No. 2-SS-2-22-92 closed to fishing that portion of the Little Susitna River from the fish counting weir located at River Mile 33 downstream for a distance of 1,500 feet. Effective July 25 through September 14, 1992.
7. E.O. No. 2-RS-2-28-92 closed the Susitna River drainage to sockeye salmon fishing. Effective July 31 through December 31, 1992.
8. E.O. No. 2-SS-2-29-92 increased bag and possession limits to 5 coho salmon 16 inches or more in length downstream from the department's counting weir at River Mile 32.5. Effective August 15 through December 31, 1992.

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1993

Emergency Orders:

5. E.O. No. 2-RS-2-23-93 opened the Fish Creek personal use fishery. The dip net fishery opened 9:00 a.m. July 24 and closed midnight August 6, with the fishery being closed July 26, July 30, and August 3, 1993.
6. E.O. No. 2-SS-2-25-93 closed to fishing that portion of the Little Susitna River from the fish counting weir located at River Mile 33 downstream for a distance of 1,500 feet. Effective July 23 through September 15, 1993.
7. E.O. No. 2-SS-2-32-93 increased the bag and possession limits to 5 coho salmon at the Little Susitna River downstream from the department's counting weir at River Mile 32.5. Effective August 11 through December 31, 1993.
8. E.O. No. 2-SS-2-33-93 closed to fishing that portion of Jim Creek from the fish counting weir located at River Mile 1 downstream for a distance of 500 feet. Effective August 12 through November 1, 1993.

1994

Emergency Orders:

6. E.O. No. 2-RS-2-28-94 opened the Fish Creek personal use fishery. The dip net fishery opened 9:00 a.m. July 27 and closed midnight August 5, with the fishery being closed July 29 and August 2, 1994.
 7. E.O. No 2-RS-2-33-94 supersedes E.O. 2-RS-2-28-94 extending the Fish Creek Personal Use Dip Net Fishery through midnight August 9. Effective August 7, 1994 through August 9, 1994.
 8. E.O. No. 2-KS-2-05-94 closed to fishing that portion of the Little Susitna River from the fish counting weir located at River Mile 33 downstream for a distance of 1,500 feet. Effective May 25 through September 15, 1994.
 9. E.O. No. 2-SS-2-32-94 increased the bag and possession limits to 5 coho salmon at the Little Susitna River downstream from the department's counting weir at River Mile 32.5. Effective August 6 through December 31, 1994.
 10. E.O. No. 2-SS-2-29-94 closed that portion of Jim Creek to fishing from the fish counting weir located at River Mile 1 downstream for a distance of 1,000 feet. Effective July 26, 1994 through November 1, 1994.
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1995

Emergency Orders:

4. E.O. No. 2-KS-2-07-95 closed to fishing that portion of the Little Susitna River from the fish counting weir located at River Mile 33 downstream for a distance of 1,900 feet. Effective May 25 through September 15, 1995.
5. E.O. No. 2-RS-02-32-95 opened the Fish Creek personal use fishery. The dip net fishery opened 5:00 a.m. July 26 and closed midnight August 8, with the fishery being closed July 28 and August 1 and August 4, 1995.
6. E.O. No. 2-SS-02-40-95 increased the bag and possession limits to 5 coho salmon at the Little Susitna River downstream from the department's counting weir at River Mile 32.5. Effective August 9 through December 31, 1995.

1997

Emergency Orders:

5. E.O. No. 2-RS-2-25-97 closed Fish Creek dipnetting from 11:00 a.m. July 23 through 11:00 p.m. July 25, 1997.
6. E.O. No. 2-RS-2-28-97 closed Fish Creek dipnetting for the remainder of the 1997 season on July 26, 1997.
7. E.O. No. 2-SS-02-31-97 prohibited use of bait and reduced daily bag and possession limit of coho salmon to one in all waters of Cook Inlet on August 9, 1997. Areas not included were Eklutna Tailrace, Ship, Bird, and Campbell creeks.
8. E.O. No. 2-SS-2-34-97 closed Wasilla Creek downstream from the railroad bridge, including Rabbit Slough and Spring Creek, to sport fishing August 23 through October 31, 1997.

1998

Emergency Orders:

3. E.O. No. 2-KS-2-14-98 closes the Deshka River to all fishing 1,200 feet downstream and 300 feet upstream of the fish counting weir.
4. E.O. No. 2-RS-2-15-98 closes Fish Creek to dipnetting effective July 25, 1998 through July 31, 1998.

1999

Emergency Orders:

4. E.O. No. 2-KS-2-05-99 closed the Deshka River to fishing from 1,000 yards downstream to 200 yards upstream of the fish counting weir.
 5. E.O. No. 2-RS-2-15-99 closed Fish Creek to dipnetting on July 26, 1999.
 6. E.O. No. 2-SS-2-20-99 reduced the bag limit to 1 coho salmon and no bait for Cottonwood, Wasilla and Fish creeks and the Little Susitna River, on August 19, 1999.
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2000

3. E.O. No. 2-SS-2-17-00 stated after keeping 2 coho below RM 32.5 Little Susitna River, an angler must quit fishing in the Little Susitna River for the remainder of the day, July 28-December 31.
4. E.O. No. 2-RS-2-16-00 closed Fish Creek to dipnetting on July 26, 2000.

2001

Emergency Orders:

2. E.O. No. 2-RS-2-17-01 closed Fish Creek to dipnetting on July 12 at 11:00 p.m.

2002

Emergency Orders:

E.O. No. 2-SS-2-29-02 in Fish Creek increased coho bag limit to 3 per day and allowed 24-hour per day fishing on Saturdays and Sundays beginning August 17 at 12:01 a.m. through December 31.

2003

No new regulations adopted for 2003 and no EOs issued.

2004

No new regulations adopted for 2004 and no EOs issued.

2005

No emergency orders were issued affecting coho salmon fisheries in 2005.

2006

Emergency orders:

5. E.O. No. 2-SS-2-41-06 increased the daily bag limit of coho salmon to three daily in that portion of the Little Susitna River open to salmon fishing beginning August 19.
6. E.O. No. 2-SS-2-44-06 increased salmon fishing time on Wasilla Creek to 24 hours per day while keeping the Saturday and Sunday, weekend only restriction and increased the bag limit for coho salmon to three daily in those waters open to salmon fishing on August 19.
7. E.O. No. 2-SS-43-06 increased salmon (other than king salmon) fishing time on Fish Creek to 24 hours per day while keeping the Saturday and Sunday, weekend only restriction and increased the bag limit for coho salmon to three daily in those waters open to salmon fishing on August 19.
8. E.O. No. 2-SS-2-42-06 increased salmon fishing time on Cottonwood Creek to 24 hours per day while keeping the Saturday and Sunday, weekend only restriction and increased the bag limit for coho salmon to three daily in those waters open to salmon fishing on August 19.

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2007

Emergency orders:

3. E.O. No. 2-SS-2-36-07 Prohibits retention of Coho salmon while sport fishing in the Kink Arm Management Area, excluding Eklutna Tail Race and fish creek effective September 4.
4. E.O. No. 2-SS-2-37-07 rescinded E.O. No. 2-SS-2-36-07 on September 11.

2008

Emergency orders:

2. **E.O No. 2-SS-2-26-08 Increased the** bag limit for coho salmon to three (3) per day in that portion of the Knik Arm open to salmon fishing, excluding Jim Creek beginning August 16.

2009

Emergency orders:

3. EO No. 2-SS-2-27-09 Increased the bag limit for coho salmon to three (3) per day in that portion of the Knik Arm open to salmon fishing except the Little Susitna river beginning August 19.
4. This same EO also added Mondays to the weekend fisheries of Cottonwood, Wasilla and Fish Creeks beginning August 19.

2010

Emergency Orders:

3. 2-SS-2-42-10 increased the bag limit for coho salmon to three (3) per day in that portion of the Knik Arm open to salmon fishing except Jim Creek and the Little Susitna river beginning August 7.
4. 2-RS-2-38-10 opened the Fish Creek Personal Use Dip Net fishery for salmon other than King Salmon only between the hours of 6:00 am and 11:00 pm starting at 6:00 am July 24 and ending 11:00 pm July 31.

2011

Emergency Orders:

3. 2-SS-2-26-11 prohibited the use of bait on the Little Susitna River effective 12:01 a.m., Saturday, August 6, 2011, through 11:50 p.m., Friday, September 20, 2011.
4. 2-SS-2-27-11 closed all waters of the Knik Arm Management Area, excluding Eklutna Tailrace and Fish Creek, to fishing for coho salmon effective 12:01 a.m., Saturday, August 27, 2011.

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2012

Emergency Orders:

11. 2-KS-2-06-12 reduced the annual limit for king salmon 20 inches or longer from five fish to two fish and limited sport fishing gear to one unbaited, single hook, artificial lure in the Susitna River drainage, effective 6:00a.m., Tuesday, May 15, 2012.
12. 2-KS-2-07-12 reduced the annual limit for king salmon 20 inches or longer from five fish to two fish and limited sport fishing gear to one unbaited, single hook, artificial lure in the Little Susitna River drainage, effective 6:00a.m., Tuesday, May 15, 2012 through 11:59p.m., Friday, July 13, 2012.
13. 2-KS-2-14-12 closed the Little Susitna River to fishing for king salmon effective 6:00 a.m., Friday, June 15, 2012, through 11:59 p.m., Friday, July 13, 2012.
14. 2-KS-2-15-12 prohibited the use of bait and limited sport fishing gear to one unbaited, single-hook artificial lure while sport fishing in the Deshka River, effective 6:00 a.m., Wednesday, June 20, 2012, through 11:00p.m., Friday, July 13, 2012.
15. 2-KS-2-20-12 closed the Susitna River drainage to sport fishing for king salmon and limited sport fishing gear to one unbaited, single hook, artificial lure when fishing in waters normally opened to king salmon fishing, effective 6:00 a.m., Monday, June 25, 2012, through 11:59p.m., Friday, July 13, 2012.
16. 2-RT-2-31-12 increased the possession limit for rainbow trout in Reflections Lake to five per day and five in possession, with only one 20 inches or greater in length, effective 6:00 a.m., Friday, July 6, 2012, through 11:59 p.m., Monday, December 31, 2012.
17. 2-SS-2-49-12 prohibited sport fishing for coho salmon on the Little Susitna River effective 12:01 a.m., Monday, August 6, 2012, through 11:59 p.m., Sunday, September 30, 2012.
18. 2-SS-2-50-12 prohibited the use of bait for coho salmon on the Little Susitna River effective 12:01 a.m., Monday, August 6, 2012, through 11:59 p.m., Sunday, September 30, 2012.
19. 2-SS-2-51-12 reduced the bag limit for coho salmon in Jim Creek from two fish to one fish only between the hours of 6:00am to 6:00pm, effective 6:00 a.m., Friday, August 10, 2012.
20. 2-SS-2-53-12 closed all waters of the Knik Arm Management Area, excluding Eklutna Tailrace and Fish Creek, to fishing for coho salmon effective 12:01 a.m., Friday, August 17, 2012.

Appendix II.-Little Susitna River weir data, 2011.

| Date | Coho salmon | | | | | Chum salmon ^a | | | | River Water | | | |
|--------|-------------|-------|----------------|-------------|-------|--------------------------|--------|---------------|------|-------------|-------|---------------|--------------|
| | Passage | | Sampled (n) | Adipose fin | | Passage | | Daily passage | | | | Stage (ft) | Temp. (C) |
| | Daily | Cum | | Inspected | Clips | Daily | Cum | King | Pink | Red | Other | | |
| 3-Aug | 1 | 1 | 0 | 0 | 0 | 387 | 387 | 0 | 4 | 2 | 0 | n/a | n/a |
| 4-Aug | 6 | 7 | 0 | 0 | 0 | 1,019 | 1,406 | 0 | 6 | 1 | 0 | 1.64 | n/a |
| 5-Aug | 23 | 30 | 0 | 0 | 0 | 1,180 | 2,586 | 1 | 4 | 1 | 1 | 1.70 | 9.2 |
| 6-Aug | 26 | 56 | 0 | 0 | 0 | 1,319 | 3,905 | 2 | 6 | 1 | 0 | 2.65 | 8.8 |
| 7-Aug | 14 | 70 | 0 | 0 | 0 | 877 | 4,782 | 2 | 3 | 0 | 0 | 2.36 | 8.3 |
| 8-Aug | 10 | 80 | 0 | 0 | 0 | 482 | 5,264 | 0 | 4 | 1 | 0 | 3.10 | 8.5 |
| 9-Aug | 0 | 80 | 0 | 0 | 0 | 64 | 5,328 | 0 | 0 | 0 | 0 | 3.22 | 8.5 |
| 10-Aug | 0 | 80 | 0 | 0 | 0 | 0 | 5,328 | 0 | 0 | 0 | 0 | n/a | 8.5 |
| 11-Aug | 32 | 112 | 0 | 0 | 0 | 1,090 | 6,418 | 1 | 9 | 1 | 3 | n/a | 8.7 |
| 12-Aug | 77 | 189 | 0 | 0 | 0 | 1,713 | 8,131 | 1 | 10 | 2 | 0 | 3.16 | 8.2 |
| 13-Aug | 123 | 312 | 0 | 0 | 0 | 2,030 | 10,161 | 1 | 5 | 0 | 1 | 2.75 | 9.6 |
| 14-Aug | 78 | 390 | 10 | 0 | 0 | 1,107 | 11,268 | 1 | 7 | 0 | 0 | 2.54 | 9.2 |
| 15-Aug | 50 | 440 | 0 | 0 | 0 | 953 | 12,221 | 3 | 2 | 2 | 5 | 2.66 | 9.0 |
| 16-Aug | 83 | 523 | 10 | 0 | 0 | 1,765 | 13,986 | 0 | 5 | 2 | 0 | 2.38 | 9.0 |
| 17-Aug | 55 | 578 | 7 | 0 | 0 | 480 | 14,466 | 0 | 1 | 0 | 0 | 2.44 | 8.8 |
| 18-Aug | 104 | 682 | 0 | 0 | 0 | 622 | 15,088 | 0 | 0 | 0 | 3 | n/a | 8.9 |
| 19-Aug | 43 | 725 | 0 | 0 | 0 | 789 | 15,877 | 2 | 2 | 1 | 1 | n/a | 8.3 |
| 20-Aug | 41 | 766 | 0 | 0 | 0 | 598 | 16,475 | 0 | 5 | 1 | 0 | 3.26 | 8.8 |
| 21-Aug | 102 | 868 | 10 | 0 | 0 | 675 | 17,150 | 0 | 0 | 1 | 1 | 2.85 | 8.6 |
| 22-Aug | 216 | 1,084 | 10 | 0 | 0 | 714 | 17,864 | 0 | 0 | 0 | 0 | 2.70 | 9.8 |
| 23-Aug | 149 | 1,233 | 10 | 0 | 0 | 423 | 18,287 | 2 | 2 | 1 | 2 | 2.56 | 9.2 |
| 24-Aug | 212 | 1,445 | 10 | 0 | 0 | 417 | 18,704 | 1 | 0 | 0 | 0 | 2.32 | 9.5 |
| 25-Aug | 372 | 1,817 | 10 | 0 | 0 | 250 | 18,954 | 0 | 1 | 1 | 3 | 2.21 | 9.0 |
| 26-Aug | 199 | 2,016 | 10 | 0 | 0 | 196 | 19,150 | 0 | 0 | 0 | 0 | 2.00 | 8.2 |
| 27-Aug | 108 | 2,124 | 10 | 0 | 0 | 165 | 19,315 | 0 | 0 | 0 | 1 | 1.90 | n/a |
| 28-Aug | 79 | 2,203 | 10 | 0 | 0 | 18 | 19,333 | 0 | 0 | 1 | 0 | 1.80 | n/a |
| 29-Aug | 63 | 2,266 | 10 | 0 | 0 | 10 | 19,343 | 0 | 0 | 0 | 0 | 1.72 | n/a |
| 30-Aug | 18 | 2,284 | 0 | 0 | 0 | 7 | 19,350 | 0 | 1 | 0 | 0 | 1.62 | 8.5 |
| 31-Aug | 24 | 2,308 | 0 | 0 | 0 | 3 | 19,353 | 0 | 0 | 0 | 0 | 1.66 | 8.0 |
| 1-Sep | 134 | 2,442 | 0 | 0 | 0 | 12 | 19,365 | 0 | 0 | 0 | 0 | 1.92 | 7.8 |
| 2-Sep | 16 | 2,458 | 0 | 0 | 0 | 1 | 19,366 | 0 | 1 | 0 | 0 | 1.73 | 7.7 |
| 3-Sep | 7 | 2,465 | 0 | 0 | 0 | 3 | 19,369 | 0 | 1 | 0 | 0 | 1.62 | 7.0 |
| 4-Sep | 68 | 2,533 | 20 | 0 | 0 | 22 | 19,391 | 0 | 0 | 0 | 0 | 1.51 | 7.0 |

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| Date | Coho salmon | | | | | Chum salmon ^a | | | | | | River Water | |
|--------|-------------|-------|----------------|-------------|-------|--------------------------|--------|---------------|------|-----|-------|---------------|--------------|
| | Passage | | Sampled (n) | Adipose fin | | Passage | | Daily passage | | | | Stage (ft) | Temp. (C) |
| | Daily | Cum | | Inspected | Clips | Daily | Cum | King | Pink | Red | Other | | |
| 5-Sep | 114 | 2,647 | 20 | 0 | 0 | 12 | 19,403 | 0 | 0 | 0 | 1 | 1.43 | 6.8 |
| 6-Sep | 119 | 2,766 | 10 | 0 | 0 | 10 | 19,413 | 0 | 0 | 0 | 0 | 1.36 | 7.0 |
| 7-Sep | 174 | 2,940 | 20 | 0 | 0 | 5 | 19,418 | 0 | 0 | 0 | 0 | 1.31 | 7.0 |
| 8-Sep | 107 | 3,047 | 14 | 0 | 0 | 14 | 19,432 | 0 | 0 | 0 | 2 | 1.28 | 6.8 |
| 9-Sep | 549 | 3,596 | 40 | 0 | 0 | 15 | 19,447 | 0 | 0 | 1 | 0 | 1.15 | 6.8 |
| 10-Sep | 287 | 3,883 | 30 | 0 | 0 | 11 | 19,458 | 0 | 0 | 1 | 1 | 1.13 | 7.4 |
| 11-Sep | 66 | 3,949 | 0 | 0 | 0 | 5 | 19,463 | 0 | 0 | 1 | 0 | 1.07 | 6.6 |
| 12-Sep | 12 | 3,961 | 0 | 0 | 0 | 2 | 19,465 | 0 | 0 | 0 | 1 | 1.07 | 6.9 |
| 13-Sep | 142 | 4,103 | 15 | 0 | 0 | 2 | 19,467 | 0 | 0 | 0 | 0 | 1.00 | 7.0 |
| 14-Sep | 203 | 4,306 | 20 | 0 | 0 | 5 | 19,472 | 0 | 0 | 0 | 0 | 0.98 | 7.5 |
| 15-Sep | 64 | 4,370 | 10 | 0 | 0 | 5 | 19,477 | 0 | 0 | 0 | 0 | 0.97 | 6.5 |
| 16-Sep | 38 | 4,408 | 10 | 0 | 0 | 6 | 19,483 | 0 | 0 | 0 | 0 | 0.95 | 6.4 |
| 17-Sep | 1 | 4,409 | 0 | 0 | 0 | 8 | 19,491 | 0 | 0 | 0 | 0 | 0.92 | 5.5 |
| 18-Sep | 129 | 4,538 | 20 | 0 | 0 | 3 | 19,494 | 0 | 0 | 0 | 0 | 0.91 | 5.4 |
| 19-Sep | 12 | 4,550 | 0 | 0 | 0 | 1 | 19,495 | 0 | 0 | 0 | 0 | 0.88 | 5.7 |
| 20-Sep | 3 | 4,553 | 0 | 0 | 0 | 0 | 19,495 | 0 | 0 | 0 | 1 | 0.86 | 5.5 |
| 21-Sep | 71 | 4,624 | 20 | 0 | 0 | 0 | 19,495 | 0 | 0 | 0 | 0 | 0.86 | 5.8 |
| 22-Sep | 183 | 4,807 | 40 | 0 | 0 | 7 | 19,502 | 0 | 0 | 0 | 0 | 0.83 | 5.4 |
| 23-Sep | 0 | 4,807 | 0 | 0 | 0 | 3 | 19,505 | 0 | 0 | 0 | 0 | 0.81 | 5.6 |
| 24-Sep | 19 | 4,826 | 19 | 0 | 0 | 1 | 19,506 | 0 | 0 | 0 | 0 | 0.79 | 5.6 |
| 25-Sep | 0 | 4,826 | 0 | 0 | 0 | 0 | 19,506 | 0 | 0 | 0 | 0 | 0.76 | 5.0 |
| 26-Sep | 0 | 4,826 | 0 | 0 | 0 | 0 | 19,506 | 0 | 0 | 0 | 0 | 0.74 | 4.0 |
| 27-Sep | 0 | 4,826 | 0 | 0 | 0 | 0 | 19,506 | 0 | 0 | 0 | 0 | 0.72 | 4.0 |
| Total | 4,826 | | 425 | 0 | 0 | 19,506 | | 17 | 79 | 22 | 27 | | |

Note: Cum = cumulative; n = sample size (number of fish); Inspected = total number of fish examined for adipose fin clips; Clips = no of fish with adipose; fin clips; King = Chinook salmon; Pink = pink salmon; Red = sockeye salmon; and ND = no data collected because no attempts were made to collect it.

^a Chum salmon at Little Susitna Weir were not sampled for age-length-weight data.

Appendix I2.-Little Susitna River weir data, 2012.

| Date | Coho salmon | | | | | Chum salmon ^a | | | | | | River Water | |
|--------|-------------|-------|----------------|-------------|-------|--------------------------|--------|---------------|------|-----|-------|---------------|--------------|
| | Passage | | Sampled (n) | Adipose fin | | Passage | | Daily passage | | | | Stage (ft) | Temp. (C) |
| | Daily | Cum | | Inspected | Clips | Daily | Cum | King | Pink | Red | Other | | |
| 16-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | n/a | n/a |
| 17-Jul | 2 | 2 | 0 | 0 | 0 | 553 | 553 | 41 | 2 | 0 | 0 | n/a | n/a |
| 18-Jul | 0 | 2 | 0 | 0 | 0 | 2 | 555 | 7 | 0 | 0 | 0 | n/a | n/a |
| 19-Jul | 3 | 5 | 0 | 0 | 0 | 1,551 | 2,106 | 90 | 8 | 3 | 0 | n/a | n/a |
| 20-Jul | 0 | 5 | 0 | 0 | 0 | 1,315 | 3,421 | 30 | 8 | 0 | 0 | n/a | n/a |
| 21-Jul | 2 | 7 | 0 | 0 | 0 | 1,463 | 4,884 | 7 | 26 | 4 | 0 | n/a | n/a |
| 22-Jul | 3 | 10 | 0 | 0 | 0 | 909 | 5,793 | 5 | 24 | 0 | 0 | 2.44 | 12.0 |
| 23-Jul | 3 | 13 | 0 | 0 | 0 | 234 | 6,027 | 2 | 18 | 0 | 0 | 2.44 | 12.0 |
| 24-Jul | 0 | 13 | 0 | 0 | 0 | 1 | 6,028 | 0 | 1 | 0 | 0 | 2.16 | 12.0 |
| 25-Jul | 0 | 13 | 0 | 0 | 0 | 409 | 6,437 | 0 | 0 | 1 | 0 | 1.94 | 11.0 |
| 26-Jul | 32 | 45 | 0 | 0 | 0 | 3,201 | 9,638 | 11 | 74 | 1 | 0 | 1.72 | 12.0 |
| 27-Jul | 23 | 68 | 1 | 0 | 0 | 2,229 | 11,867 | 28 | 91 | 23 | 0 | 1.62 | 10.0 |
| 28-Jul | 23 | 91 | 8 | 0 | 0 | 2,861 | 14,728 | 9 | 383 | 41 | 0 | 1.56 | 10.0 |
| 29-Jul | 23 | 114 | 18 | 0 | 0 | 938 | 15,666 | 3 | 253 | 13 | 0 | 1.49 | 11.0 |
| 30-Jul | 3 | 117 | 0 | 0 | 0 | 266 | 15,932 | 7 | 89 | 4 | 0 | 1.48 | 12.0 |
| 31-Jul | 1 | 118 | 0 | 0 | 0 | 545 | 16,477 | 2 | 40 | 0 | 0 | 1.40 | 12.0 |
| 1-Aug | 2 | 120 | 0 | 0 | 0 | 577 | 17,054 | 4 | 26 | 0 | 0 | 1.36 | 12.0 |
| 2-Aug | 4 | 124 | 2 | 0 | 0 | 606 | 17,660 | 6 | 63 | 5 | 0 | 1.30 | 11.5 |
| 3-Aug | 24 | 148 | 9 | 0 | 0 | 603 | 18,263 | 5 | 196 | 6 | 0 | 1.50 | 11.5 |
| 4-Aug | 200 | 348 | 23 | 0 | 0 | 1,630 | 19,893 | 16 | 657 | 18 | 0 | 2.10 | 11.0 |
| 5-Aug | 20 | 368 | 5 | 0 | 0 | 250 | 20,143 | 14 | 174 | 9 | 0 | 1.80 | 10.5 |
| 6-Aug | 21 | 389 | 6 | 0 | 0 | 301 | 20,444 | 11 | 155 | 12 | 0 | 1.72 | 10.3 |
| 7-Aug | 126 | 515 | 5 | 0 | 0 | 618 | 21,062 | 17 | 283 | 10 | 0 | 1.60 | 12.0 |
| 8-Aug | 225 | 740 | 0 | 0 | 0 | 683 | 21,745 | 1 | 327 | 11 | 0 | 1.58 | 15.0 |
| 9-Aug | 150 | 890 | 10 | 0 | 0 | 461 | 22,206 | 4 | 251 | 14 | 0 | 1.42 | 12.0 |
| 10-Aug | 360 | 1,250 | 10 | 0 | 0 | 360 | 22,566 | 1 | 318 | 7 | 0 | 1.40 | 12.5 |
| 11-Aug | 284 | 1,534 | 10 | 0 | 0 | 345 | 22,911 | 2 | 245 | 12 | 0 | 1.38 | 13.0 |
| 12-Aug | 280 | 1,814 | 5 | 0 | 0 | 219 | 23,130 | 4 | 188 | 11 | 1 | 1.37 | 13.0 |
| 13-Aug | 441 | 2,255 | 10 | 0 | 0 | 285 | 23,415 | 7 | 190 | 12 | 1 | 1.39 | 14.0 |
| 14-Aug | 332 | 2,587 | 5 | 0 | 0 | 157 | 23,572 | 4 | 154 | 4 | 0 | 1.36 | 13.0 |

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| Date | Coho salmon | | | | | Chum salmon ^a | | | | | | River Water | |
|--------|-------------|-------|----------------|-------------|-------|--------------------------|--------|---------------|-------|-----|-------|---------------|--------------|
| | Passage | | Sampled (n) | Adipose fin | | Passage | | Daily passage | | | | Stage (ft) | Temp. (C) |
| | Daily | Cum | | Inspected | Clips | Daily | Cum | King | Pink | Red | Other | | |
| 15-Aug | 182 | 2,769 | 0 | 0 | 0 | 95 | 23,667 | 5 | 97 | 6 | 0 | 1.46 | 13.0 |
| 16-Aug | 48 | 2,817 | 10 | 0 | 0 | 69 | 23,736 | 0 | 28 | 3 | 0 | 1.38 | 13.0 |
| 17-Aug | 107 | 2,924 | 10 | 0 | 0 | 112 | 23,848 | 4 | 27 | 4 | 0 | 1.36 | 12.5 |
| 18-Aug | 13 | 2,937 | 10 | 0 | 0 | 23 | 23,871 | 0 | 15 | 3 | 0 | 1.36 | 11.5 |
| 19-Aug | 38 | 2,975 | 10 | 0 | 0 | 41 | 23,912 | 0 | 10 | 1 | 0 | 1.34 | 11.0 |
| 20-Aug | 169 | 3,144 | 10 | 0 | 0 | 66 | 23,978 | 1 | 13 | 1 | 0 | 1.38 | 10.5 |
| 21-Aug | 342 | 3,486 | 0 | 0 | 0 | 31 | 24,009 | 0 | 12 | 0 | 0 | 1.58 | 10.2 |
| 22-Aug | 342 | 3,828 | 0 | 0 | 0 | 16 | 24,025 | 0 | 11 | 1 | 1 | 1.72 | 9.8 |
| 23-Aug | 353 | 4,181 | 10 | 0 | 0 | 17 | 24,042 | 0 | 14 | 0 | 0 | 1.58 | 11.5 |
| 24-Aug | 605 | 4,786 | 10 | 0 | 0 | 8 | 24,050 | 0 | 3 | 1 | 2 | 1.52 | 11.0 |
| 25-Aug | 180 | 4,966 | 10 | 0 | 0 | 9 | 24,059 | 0 | 4 | 1 | 0 | 1.53 | 10.0 |
| 26-Aug | 278 | 5,244 | 10 | 0 | 0 | 15 | 24,074 | 0 | 6 | 0 | 0 | 1.80 | 10.3 |
| 27-Aug | 844 | 6,088 | 10 | 0 | 0 | 22 | 24,096 | 0 | 4 | 2 | 0 | 1.96 | 10.0 |
| 28-Aug | 1 | 6,089 | 0 | 0 | 0 | 0 | 24,096 | 0 | 0 | 1 | 0 | >3 | 9.5 |
| 29-Aug | 0 | 6,089 | 0 | 0 | 0 | 0 | 24,096 | 0 | 0 | 0 | 0 | >3 | 9.5 |
| 30-Aug | 59 | 6,148 | 10 | 0 | 0 | 14 | 24,110 | 0 | 2 | 0 | 0 | 3.08 | 9.5 |
| 31-Aug | 118 | 6,266 | 10 | 0 | 0 | 10 | 24,120 | 0 | 2 | 2 | 0 | 2.90 | 9.0 |
| 1-Sep | 68 | 6,334 | 10 | 0 | 0 | 3 | 24,123 | 0 | 2 | 1 | 0 | 2.70 | 9.0 |
| 2-Sep | 75 | 6,409 | 10 | 0 | 0 | 5 | 24,128 | 1 | 0 | 1 | 0 | 2.52 | 9.0 |
| 3-Sep | 127 | 6,536 | 10 | 0 | 0 | 4 | 24,132 | 0 | 1 | 0 | 0 | 2.74 | 9.0 |
| 4-Sep | 36 | 6,572 | 10 | 0 | 0 | 0 | 24,132 | 0 | 1 | 0 | 0 | 2.48 | 8.5 |
| 5-Sep | 124 | 6,696 | 0 | 0 | 0 | 4 | 24,136 | 0 | 1 | 0 | 0 | 2.64 | 8.0 |
| 6-Sep | 47 | 6,743 | 0 | 0 | 0 | 1 | 24,137 | 0 | 0 | 0 | 0 | 2.96 | 7.5 |
| 7-Sep | 19 | 6,762 | 0 | 0 | 0 | 1 | 24,138 | 0 | 0 | 0 | 0 | 3.20 | 7.5 |
| 8-Sep | 8 | 6,770 | 0 | 0 | 0 | 0 | 24,138 | 0 | 0 | 0 | 0 | 2.96 | 7.0 |
| 9-Sep | 9 | 6,779 | 0 | 0 | 0 | 0 | 24,138 | 0 | 0 | 0 | 0 | 2.76 | 6.5 |
| Total | 6,779 | | 287 | 0 | 0 | 24,138 | | 349 | 4,497 | 249 | 5 | | |

Note: Cum = cumulative; n = sample size (number of fish); Inspected = total number of fish examined for adipose fin clips; Clips = no of fish with adipose; fin clips; King = Chinook salmon; Pink = pink salmon; Red = sockeye salmon; and ND = no data collected because no attempts were made to collect it.

^a Chum salmon at Little Susitna Weir were not sampled for age-length-weight data.

Appendix I3.-Fish Creek (Big Lake Drainage) weir data, 2011

| Date | Sockeye salmon | | | | | Coho salmon | | | River water | | | |
|--------|----------------|-------|--------|--------|----------------|-------------|-----|---------------|-------------|------|---------------|--------------|
| | Passage | | | | Sampled (n) | Passage | | Daily passage | | | Stage (ft) | Temp. (C) |
| | Adults | Jacks | Daily | Cum | | Daily | Cum | King | Pink | Chum | | |
| 6-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.12 | 18.0 |
| 7-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.10 | 15.0 |
| 8-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.08 | 16.0 |
| 9-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.07 | 15.0 |
| 10-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.06 | 15.0 |
| 11-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.04 | 15.0 |
| 12-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.09 | 15.0 |
| 13-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.10 | 14.0 |
| 14-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.10 | 15.0 |
| 15-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.10 | 14.0 |
| 16-Jul | 51 | 1 | 52 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 1.09 | 15.0 |
| 17-Jul | 87 | 1 | 88 | 140 | 0 | 0 | 0 | 0 | 0 | 0 | 1.08 | 15.0 |
| 18-Jul | 573 | 5 | 578 | 718 | 6 | 0 | 0 | 0 | 0 | 0 | 1.24 | 14.0 |
| 19-Jul | 380 | 4 | 384 | 1,107 | 4 | 0 | 0 | 0 | 0 | 0 | 1.22 | 14.0 |
| 20-Jul | 979 | 12 | 991 | 2,093 | 11 | 0 | 0 | 0 | 0 | 0 | 1.18 | 14.0 |
| 21-Jul | 1,046 | 13 | 1,059 | 3,152 | 11 | 0 | 0 | 0 | 0 | 0 | 1.16 | 15.0 |
| 22-Jul | 1,117 | 18 | 1,135 | 4,287 | 6 | 1 | 1 | 0 | 0 | 0 | 1.14 | 15.0 |
| 23-Jul | 1,689 | 24 | 1,713 | 6,000 | 12 | 1 | 2 | 1 | 0 | 0 | 1.12 | 16.0 |
| 24-Jul | 2,508 | 31 | 2,539 | 8,539 | 24 | 1 | 3 | 3 | 0 | 0 | 1.14 | 15.0 |
| 25-Jul | 14,011 | 88 | 14,099 | 22,638 | 40 | 17 | 20 | 1 | 2 | 0 | 1.18 | 13.0 |
| 26-Jul | 10,051 | 91 | 10,142 | 32,780 | 105 | 31 | 51 | 0 | 1 | 0 | 1.16 | 13.0 |
| 27-Jul | 8,769 | 58 | 8,827 | 41,607 | 110 | 14 | 65 | 0 | 1 | 0 | 1.14 | 13.0 |
| 28-Jul | 6,083 | 66 | 6,149 | 47,756 | 40 | 6 | 71 | 2 | 0 | 0 | 1.12 | 14.0 |
| 29-Jul | 1,411 | 20 | 1,431 | 49,187 | 80 | 2 | 73 | 1 | 0 | 0 | 1.10 | 15.0 |
| 30-Jul | 162 | 1 | 163 | 49,350 | 40 | 0 | 73 | 0 | 0 | 0 | 1.08 | 15.0 |
| 31-Jul | 680 | 0 | 680 | 50,030 | 0 | 2 | 75 | 0 | 0 | 0 | 1.10 | 16.0 |
| 1-Aug | 31 | 1 | 32 | 50,062 | 0 | 0 | 75 | 0 | 0 | 0 | 1.12 | 14.5 |
| 2-Aug | 41 | 3 | 44 | 50,106 | 10 | 1 | 76 | 0 | 0 | 0 | 1.14 | 13.5 |
| 3-Aug | 3,016 | 145 | 3,161 | 53,262 | 32 | 62 | 138 | 0 | 4 | 0 | 1.22 | 14.5 |
| 4-Aug | 5,091 | 143 | 5,234 | 58,496 | 42 | 175 | 313 | 0 | 7 | 0 | 1.24 | 13.5 |
| 5-Aug | 2,935 | 106 | 3,041 | 61,542 | 60 | 240 | 553 | 0 | 12 | 1 | 1.28 | 12.5 |
| 6-Aug | 1,453 | 64 | 1,517 | 63,059 | 35 | 48 | 601 | 0 | 6 | 0 | 1.34 | 12.0 |

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Appendix I3.–Page 2 of 2.

| Date | Sockeye salmon | | | | Sampled (n) | Coho salmon | | Daily passage | | | River water | |
|---------------------|----------------|-------|--------|--------|----------------|-------------|-------|---------------|------|------|---------------|--------------|
| | Passage | | | Cum | | Passage | | King | Pink | Chum | Stage (ft) | Temp. (C) |
| | Adults | Jacks | Daily | | | Daily | Cum | | | | | |
| 7-Aug | 1,183 | 40 | 1,223 | 64,282 | 15 | 70 | 671 | 0 | 9 | 2 | 1.40 | 11.5 |
| 8-Aug | 819 | 56 | 875 | 65,157 | 9 | 66 | 737 | 0 | 7 | 4 | 1.42 | 12.0 |
| 9-Aug | 549 | 46 | 595 | 65,752 | 7 | 476 | 1,213 | 0 | 11 | 3 | 1.55 | 11.5 |
| 10-Aug | 398 | 36 | 434 | 66,186 | 5 | 101 | 1,314 | 0 | 3 | 9 | 1.61 | 11.0 |
| 11-Aug | 85 | 4 | 89 | 66,275 | 4 | 12 | 1,326 | 0 | 3 | 7 | 1.63 | 11.0 |
| 12-Aug | 67 | 5 | 72 | 66,347 | 0 | 19 | 1,345 | 0 | 2 | 4 | 1.51 | 12.0 |
| 13-Aug | 148 | 9 | 157 | 66,504 | 0 | 27 | 1,372 | 0 | 1 | 3 | 1.46 | 13.5 |
| 14-Aug | 97 | 0 | 97 | 66,601 | 3 | 48 | 1,420 | 0 | 0 | 10 | 1.41 | 14.0 |
| 15-Aug ^a | 77 | 0 | 77 | 66,678 | 0 | 8 | 1,428 | 0 | 2 | 2 | 1.49 | 13.5 |
| Total | 65,587 | 1,091 | 66,678 | | 711 | 1,428 | | 8 | 71 | 45 | | |

Note: Jacks = salmon that return after one year in the ocean, smaller fish and predominately males (Groot and Margolis 1991); Cum = cumulative; n = sample size (number of fish); King = Chinook salmon; Pink = pink salmon; Chum = chum salmon; and ND = no data collected because no attempts were made to collect it.

Appendix I4.–Fish Creek (Big Lake Drainage) weir data, 2012.

| Date | Sockeye salmon | | | | | Coho salmon | | | Daily passage | | | River water | |
|--------|----------------|-------|-------|--------|----------------|-------------|-----|------|---------------|------|---------------|--------------|--|
| | Passage | | | | Sampled (n) | Passage | | King | Pink | Chum | Stage (ft) | Temp. (C) | |
| | Adults | Jacks | Daily | Cum | | Daily | Cum | | | | | | |
| 6-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.56 | 13.0 | |
| 7-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.56 | 13.0 | |
| 8-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.54 | 13.0 | |
| 9-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.54 | 13.0 | |
| 10-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.52 | 13.0 | |
| 11-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.49 | 12.5 | |
| 12-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.48 | 13.0 | |
| 13-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.50 | 12.0 | |
| 14-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.49 | 13.0 | |
| 15-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.52 | 12.0 | |
| 16-Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.54 | 13.0 | |
| 17-Jul | 268 | 4 | 272 | 272 | 0 | 0 | 0 | 0 | 0 | 0 | 1.52 | 14.0 | |
| 18-Jul | 33 | 2 | 35 | 307 | 5 | 0 | 0 | 0 | 0 | 0 | 1.50 | 14.0 | |
| 19-Jul | 537 | 11 | 548 | 855 | 9 | 0 | 0 | 0 | 0 | 1 | 1.49 | 15.0 | |
| 20-Jul | 629 | 9 | 638 | 1,493 | 12 | 2 | 2 | 0 | 0 | 0 | 1.47 | 16.0 | |
| 21-Jul | 1,088 | 18 | 1,106 | 2,599 | 0 | 4 | 6 | 0 | 1 | 0 | 1.52 | 14.0 | |
| 22-Jul | 1,811 | 31 | 1,842 | 4,441 | 26 | 14 | 20 | 0 | 1 | 1 | 1.60 | 14.0 | |
| 23-Jul | 1,234 | 26 | 1,260 | 5,701 | 23 | 9 | 29 | 0 | 0 | 0 | 1.60 | 14.0 | |
| 24-Jul | 1,391 | 10 | 1,401 | 7,102 | 17 | 2 | 31 | 0 | 0 | 0 | 1.59 | 14.0 | |
| 25-Jul | 246 | 3 | 249 | 7,351 | 21 | 1 | 32 | 0 | 0 | 0 | 1.58 | 14.0 | |
| 26-Jul | 2,915 | 72 | 2,987 | 10,338 | 15 | 23 | 55 | 0 | 5 | 0 | 1.56 | 14.5 | |
| 27-Jul | 1,051 | 69 | 1,120 | 11,458 | 80 | 12 | 67 | 0 | 0 | 0 | 1.54 | 14.0 | |
| 28-Jul | 1,503 | 81 | 1,584 | 13,042 | 40 | 11 | 78 | 0 | 2 | 0 | 1.50 | 15.0 | |
| 29-Jul | 769 | 51 | 820 | 13,862 | 12 | 19 | 97 | 0 | 2 | 0 | 1.48 | 15.0 | |
| 30-Jul | 341 | 8 | 349 | 14,211 | 19 | 14 | 111 | 0 | 0 | 0 | 1.48 | 15.0 | |
| 31-Jul | 120 | 7 | 127 | 14,338 | 33 | 27 | 138 | 0 | 1 | 0 | 1.48 | 14.0 | |
| 1-Aug | 107 | 7 | 114 | 14,452 | 25 | 11 | 149 | 0 | 3 | 0 | 1.50 | 14.0 | |
| 2-Aug | 2,513 | 62 | 2,575 | 17,027 | 40 | 31 | 180 | 0 | 4 | 0 | 1.50 | 13.5 | |
| 3-Aug | 68 | 10 | 78 | 17,105 | 21 | 33 | 213 | 0 | 0 | 0 | 1.52 | 12.5 | |

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| Date | Sockeye salmon | | | | | Coho salmon | | | | | River water | |
|---------------------|----------------|-------|-------|--------|----------------|-------------|-------|---------------|------|------|---------------|--------------|
| | Passage | | | | Sampled (n) | Passage | | Daily passage | | | Stage (ft) | Temp. (C) |
| | Adults | Jacks | Daily | Cum | | Daily | Cum | King | Pink | Chum | | |
| 4-Aug | 437 | 19 | 456 | 17,561 | 28 | 84 | 297 | 0 | 1 | 1 | 1.52 | 14.0 |
| 5-Aug | 993 | 24 | 1,017 | 18,578 | 36 | 28 | 325 | 0 | 1 | 2 | 1.53 | 13.0 |
| 6-Aug | 15 | 1 | 16 | 18,594 | 14 | 0 | 325 | 0 | 0 | 0 | 1.52 | 13.0 |
| 7-Aug | 9 | 0 | 9 | 18,603 | 9 | 2 | 327 | 0 | 0 | 0 | 1.50 | 13.0 |
| 8-Aug | 5 | 0 | 5 | 18,608 | 5 | 0 | 327 | 0 | 0 | 0 | 1.49 | 14.0 |
| 9-Aug | 36 | 0 | 36 | 18,644 | 14 | 11 | 338 | 0 | 3 | 0 | 1.47 | 14.0 |
| 10-Aug | 11 | 0 | 11 | 18,655 | 0 | 1 | 339 | 0 | 0 | 0 | 1.46 | 14.0 |
| 11-Aug | 0 | 0 | 0 | 18,655 | 0 | 0 | 339 | 0 | 0 | 0 | 1.44 | 15.5 |
| 12-Aug | 9 | 0 | 9 | 18,664 | 0 | 2 | 341 | 0 | 4 | 0 | 1.44 | 16.0 |
| 13-Aug | 7 | 0 | 7 | 18,671 | 0 | 4 | 345 | 0 | 8 | 1 | 1.44 | 15.0 |
| 14-Aug | 10 | 0 | 10 | 18,681 | 0 | 2 | 347 | 0 | 11 | 1 | 1.42 | 15.0 |
| 15-Aug ^a | 18 | 0 | 18 | 18,699 | 0 | 5 | 352 | 0 | 30 | 2 | 1.40 | 15.0 |
| 16-Aug | 6 | 0 | 6 | 18,705 | 0 | 3 | 355 | 0 | 7 | 0 | 1.40 | 15.0 |
| 17-Aug | 14 | 0 | 14 | 18,719 | 0 | 11 | 366 | 0 | 16 | 0 | 1.40 | 14.0 |
| 18-Aug | 2 | 0 | 2 | 18,721 | 0 | 0 | 366 | 0 | 4 | 0 | 1.38 | 13.0 |
| 19-Aug | 4 | 0 | 4 | 18,725 | 0 | 6 | 372 | 0 | 8 | 0 | 1.40 | 13.0 |
| 20-Aug | 27 | 1 | 28 | 18,753 | 0 | 47 | 419 | 0 | 17 | 5 | 1.42 | 12.5 |
| 21-Aug | 30 | 1 | 31 | 18,784 | 0 | 102 | 521 | 0 | 12 | 1 | 1.42 | 12.5 |
| 22-Aug | 0 | 0 | 0 | 18,784 | 0 | 1 | 522 | 0 | 1 | 0 | 1.44 | 12.5 |
| 23-Aug | 13 | 0 | 13 | 18,797 | 0 | 118 | 640 | 0 | 2 | 0 | 1.46 | 13.5 |
| 24-Aug | 2 | 0 | 2 | 18,799 | 0 | 5 | 645 | 0 | 1 | 0 | 1.52 | 12.0 |
| 25-Aug | 1 | 1 | 2 | 18,801 | 0 | 0 | 645 | 0 | 0 | 0 | 1.49 | 13.0 |
| 26-Aug | 0 | 0 | 0 | 18,801 | 0 | 1 | 646 | 0 | 0 | 0 | 1.49 | 12.5 |
| 27-Aug | 16 | 3 | 19 | 18,820 | 0 | 570 | 1,216 | 0 | 3 | 10 | 1.64 | 12.0 |
| 28-Aug | 3 | 0 | 3 | 18,823 | 0 | 18 | 1,234 | 0 | 0 | 0 | 1.66 | 11.0 |
| 29-Aug | 0 | 0 | 0 | 18,823 | 0 | 0 | 1,234 | 0 | 0 | 0 | 1.62 | 12.0 |
| 30-Aug | 0 | 0 | 0 | 18,823 | 0 | 0 | 1,234 | 0 | 0 | 0 | 1.58 | 12.0 |
| 31-Aug | 0 | 0 | 0 | 18,823 | 0 | 1 | 1,235 | 0 | 0 | 0 | 1.62 | 12.0 |
| 1-Sep | 0 | 0 | 0 | 18,823 | 0 | 0 | 1,235 | 0 | 0 | 0 | 1.64 | 11.0 |
| 2-Sep | 0 | 0 | 0 | 18,823 | 0 | 0 | 1,235 | 0 | 0 | 0 | 1.65 | 11.0 |
| 3-Sep | 0 | 0 | 0 | 18,823 | 0 | 0 | 1,235 | 0 | 0 | 0 | 1.65 | 11.0 |

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| Date | Sockeye salmon | | | | | Coho salmon | | | River water | | | | |
|--------|----------------|-------|--------|--------|----------------|-------------|-------|---------------|-------------|------|---------------|--------------|--|
| | Passage | | | | Sampled (n) | Passage | | Daily passage | | | Stage (ft) | Temp. (C) | |
| | Adults | Jacks | Daily | Cum | | Daily | Cum | King | Pink | Chum | | | |
| 4-Sep | 0 | 0 | 0 | 18,823 | 0 | 0 | 1,235 | 0 | 0 | 0 | 1.66 | 10.5 | |
| 5-Sep | 0 | 0 | 0 | 18,823 | 0 | 0 | 1,235 | 0 | 0 | 0 | 1.70 | 9.5 | |
| 6-Sep | 0 | 0 | 0 | 18,823 | 0 | 0 | 1,235 | 0 | 0 | 0 | 1.71 | 9.0 | |
| 7-Sep | 0 | 0 | 0 | 18,823 | 0 | 0 | 1,235 | 0 | 0 | 0 | 1.70 | 9.5 | |
| 8-Sep | 0 | 0 | 0 | 18,823 | 0 | 0 | 1,235 | 0 | 0 | 0 | 1.68 | 9.0 | |
| 9-Sep | 0 | 0 | 0 | 18,823 | 0 | 0 | 1,235 | 0 | 0 | 0 | 1.66 | 8.0 | |
| 10-Sep | 0 | 0 | 0 | 18,823 | 0 | 0 | 1,235 | 0 | 0 | 0 | 1.64 | 7.0 | |
| 11-Sep | 0 | 0 | 0 | 18,823 | 0 | 0 | 1,235 | 0 | 0 | 0 | 1.60 | 7.0 | |
| 12-Sep | 0 | 0 | 0 | 18,823 | 0 | 0 | 1,235 | 0 | 0 | 0 | 1.61 | 7.5 | |
| 13-Sep | 0 | 0 | 0 | 18,823 | 0 | 2 | 1,237 | 0 | 0 | 0 | 1.63 | 7.5 | |
| 14-Sep | 0 | 0 | 0 | 18,823 | 0 | 0 | 1,237 | 0 | 0 | 0 | 1.61 | 8.5 | |
| 15-Sep | 0 | 0 | 0 | 18,823 | 0 | 0 | 1,237 | 0 | 0 | 0 | 1.70 | 9.0 | |
| 16-Sep | 0 | 0 | 0 | 18,823 | 0 | 0 | 1,237 | 0 | 0 | 0 | 1.92 | 8.5 | |
| Total | 18,292 | 531 | 18,823 | | 504 | | 1,237 | 0 | 148 | 25 | | | |

Note: Jacks = salmon that return after one year in the ocean, smaller fish and predominately males (Groot and Margolis 1991); Cum = cumulative; n = sample size (number of fish); King = chinook salmon; Pink = pink salmon; Chum = chum salmon; and ND = no data collected because no attempts were made to collect it.

Appendix I5.–Deshka River weir data, 2011.

| Date | Chinook salmon | | | | Coho salmon | | | | Daily passage | | | | River water | | | Boat traffic thru weir |
|--------|----------------|---------|----|--------------------|-------------|---------|-------|--------------------|---------------|------|------|------|-------------|------------|--------------|------------------------|
| | Passage | Sampled | | Harvest above weir | Passage | Sampled | | Harvest above weir | Red | Chum | Pink | Pike | Stage (ft) | Temp. (°C) | Clarity (cm) | |
| | | Cum | n | | | Female | Daily | | | | | | | | | |
| 24-May | Daily 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | n/a | 3 |
| 25-May | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | n/a | 10.3 | good | 6 |
| 26-May | 23 | 29 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.99 | 10.2 | excellent | 6 |
| 27-May | 12 | 41 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.68 | 13.0 | excellent | 16 |
| 28-May | 10 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2.59 | 14.0 | excellent | 15 |
| 29-May | 19 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2.48 | 14.0 | excellent | 16 |
| 30-May | 3 | 73 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.39 | 14.5 | excellent | 20 |
| 31-May | 4 | 77 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.35 | 15.0 | excellent | 11 |
| 1-Jun | 2 | 79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.29 | 14.5 | excellent | 18 |
| 2-Jun | 2 | 81 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.26 | 13.5 | excellent | 1 |
| 3-Jun | 53 | 134 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.27 | 13.0 | excellent | 16 |
| 4-Jun | 21 | 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.32 | 12.3 | excellent | 16 |
| 5-Jun | 8 | 163 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.47 | 12.0 | excellent | 17 |
| 6-Jun | 317 | 480 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.53 | 13.4 | excellent | 4 |
| 7-Jun | 24 | 504 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2.52 | 13.8 | excellent | 9 |
| 8-Jun | 271 | 775 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.38 | 13.3 | excellent | 15 |
| 9-Jun | 375 | 1,150 | 11 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.30 | 13.8 | excellent | 12 |
| 10-Jun | 637 | 1,787 | 14 | 10 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2.21 | 14.0 | excellent | 28 |
| 11-Jun | 732 | 2,519 | 21 | 11 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.17 | 13.5 | excellent | 44 |
| 12-Jun | 742 | 3,261 | 17 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.12 | 13.8 | excellent | 20 |
| 13-Jun | 735 | 3,996 | 10 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.08 | 13.2 | excellent | 13 |
| 14-Jun | 845 | 4,841 | 15 | 7 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.05 | 13.0 | excellent | 13 |
| 15-Jun | 720 | 5,561 | 28 | 12 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.01 | 13.1 | excellent | 10 |
| 16-Jun | 618 | 6,179 | 11 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.00 | 13.0 | excellent | 16 |
| 17-Jun | 852 | 7,031 | 20 | 7 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.01 | 12.5 | excellent | 32 |
| 18-Jun | 1,700 | 8,731 | 40 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.00 | 15.5 | excellent | 29 |
| 19-Jun | 1,667 | 10,398 | 23 | 7 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.95 | 17.0 | excellent | 39 |
| 20-Jun | 923 | 11,321 | 17 | 5 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.97 | 15.9 | excellent | 26 |
| 21-Jun | 734 | 12,055 | 11 | 4 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.99 | 15.9 | excellent | 33 |
| 22-Jun | 199 | 12,254 | 5 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.99 | 15.8 | excellent | 19 |
| 23-Jun | 793 | 13,047 | 10 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.97 | 16.0 | excellent | 19 |
| 24-Jun | 556 | 13,603 | 17 | 6 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.93 | 15.5 | excellent | 29 |

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| Date | Chinook salmon | | | | | Coho salmon | | | | Daily passage | | | | River water | | | Boat traffic thru weir |
|--------|----------------|--------|---------|--------|--------------------|-------------|-----|-------------|--------------------|---------------|------|------|------|-------------|------------|--------------|------------------------|
| | Passage | | Sampled | | Harvest above weir | Passage | | Sampled (n) | Harvest above weir | Red | Chum | Pink | Pike | Stage (ft) | Temp. (°C) | Clarity (cm) | |
| | Daily | Cum | n | Female | | Daily | Cum | | | | | | | | | | |
| 25-Jun | 847 | 14,450 | 13 | 7 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.90 | 17.0 | excellent | 23 | |
| 26-Jun | 714 | 15,164 | 18 | 9 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.87 | 16.5 | excellent | 32 | |
| 27-Jun | 702 | 15,866 | 14 | 8 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.86 | 16.0 | excellent | 12 | |
| 28-Jun | 211 | 16,077 | 6 | 4 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.85 | 15.9 | excellent | 22 | |
| 29-Jun | 206 | 16,283 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.83 | 15.9 | excellent | 12 | |
| 30-Jun | 260 | 16,543 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.81 | 16.0 | excellent | 7 | |
| 1-Jul | 367 | 16,910 | 2 | 1 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.78 | 16.0 | excellent | 27 | |
| 2-Jul | 186 | 17,096 | 6 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.83 | 16.0 | excellent | 10 | |
| 3-Jul | 22 | 17,118 | 2 | 1 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.85 | 14.5 | excellent | 15 | |
| 4-Jul | 46 | 17,164 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.85 | 15.0 | excellent | 21 | |
| 5-Jul | 152 | 17,316 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.87 | 15.0 | excellent | 5 | |
| 6-Jul | 76 | 17,392 | 3 | 1 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.80 | 15.5 | excellent | 17 | |
| 7-Jul | 223 | 17,615 | 4 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1.75 | 15.5 | excellent | 10 | |
| 8-Jul | 174 | 17,789 | 5 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1.64 | 16.0 | excellent | 10 | |
| 9-Jul | 17 | 17,806 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.60 | 15.2 | excellent | 4 | |
| 10-Jul | 17 | 17,823 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.56 | 15.2 | excellent | 15 | |
| 11-Jul | 44 | 17,867 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 1.53 | 15.5 | excellent | 9 | |
| 12-Jul | 127 | 17,994 | 4 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1.60 | 15.0 | excellent | 2 | |
| 13-Jul | 147 | 18,141 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 1 | 1.72 | 14.9 | excellent | 1 | |
| 14-Jul | 155 | 18,296 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 1.81 | 16.0 | excellent | 6 | |
| 15-Jul | 35 | 18,331 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.79 | 16.0 | excellent | 7 | |
| 16-Jul | 20 | 18,351 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.74 | 17.3 | excellent | 10 | |
| 17-Jul | 69 | 18,420 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1.65 | 17.3 | excellent | 8 | |
| 18-Jul | 45 | 18,465 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1.73 | 16.0 | excellent | 8 | |
| 19-Jul | 59 | 18,524 | 1 | 0 | 0 | 6 | 6 | 0 | 0 | 0 | 8 | 0 | 1.79 | 14.8 | excellent | 3 | |
| 20-Jul | 89 | 18,613 | 2 | 1 | 0 | 28 | 34 | 0 | 0 | 0 | 16 | 0 | 2.06 | 16.0 | excellent | 6 | |
| 21-Jul | 50 | 18,663 | 0 | 0 | 0 | 19 | 53 | 0 | 0 | 1 | 0 | 28 | 2.15 | 16.9 | excellent | 3 | |
| 22-Jul | 19 | 18,682 | 2 | 1 | 0 | 14 | 67 | 3 | 0 | 4 | 0 | 44 | 1.97 | 17.0 | excellent | 6 | |
| 23-Jul | 65 | 18,747 | 2 | 1 | 0 | 3 | 70 | 0 | 0 | 0 | 0 | 7 | 1.83 | 18.0 | excellent | 3 | |
| 24-Jul | 32 | 18,779 | 0 | 0 | 0 | 4 | 74 | 0 | 0 | 0 | 0 | 57 | 1.76 | 15.9 | excellent | 9 | |
| 25-Jul | 19 | 18,798 | 0 | 0 | 0 | 33 | 107 | 3 | 0 | 0 | 1 | 161 | 1.80 | 14.9 | excellent | 8 | |

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| Date | Chinook salmon | | | | | Coho salmon | | | | Daily passage | | | | River water | | | Boat traffic thru weir |
|--------|----------------|--------|---------|--------|--------------------|-------------|-------|-------------|--------------------|---------------|------|-------|------|-------------|------------|--------------|------------------------|
| | Passage | | Sampled | | Harvest above weir | Passage | | Sampled (n) | Harvest above weir | Red | Chum | Pink | Pike | Stage (ft) | Temp. (°C) | Clarity (cm) | |
| | Daily | Cum | n | Female | | Daily | Cum | | | | | | | | | | |
| 26-Jul | 12 | 18,810 | 0 | 0 | 0 | 69 | 176 | 13 | 0 | 0 | 4 | 74 | 0 | 1.93 | 13.9 | excellent | 4 |
| 27-Jul | 13 | 18,823 | 0 | 0 | 0 | 204 | 380 | 32 | 0 | 1 | 2 | 270 | 0 | 2.15 | 14.9 | excellent | 10 |
| 28-Jul | 13 | 18,836 | 0 | 0 | 0 | 103 | 483 | 0 | 0 | 17 | 2 | 312 | 0 | 2.00 | 15.0 | excellent | 9 |
| 29-Jul | 15 | 18,851 | 0 | 0 | 0 | 48 | 531 | 6 | 0 | 6 | 1 | 429 | 0 | 1.89 | 16.4 | excellent | 17 |
| 30-Jul | 10 | 18,861 | 0 | 0 | 0 | 51 | 582 | 11 | 0 | 4 | 2 | 318 | 0 | 1.78 | 17.6 | excellent | 18 |
| 31-Jul | 7 | 18,868 | 0 | 0 | 0 | 24 | 606 | 0 | 0 | 2 | 0 | 109 | 0 | 1.85 | 16.8 | excellent | 24 |
| 1-Aug | 13 | 18,881 | 0 | 0 | 0 | 81 | 687 | 26 | 1 | 1 | 0 | 195 | 0 | 1.87 | 16.4 | excellent | 13 |
| 2-Aug | 28 | 18,909 | 0 | 0 | 0 | 2,415 | 3,102 | 7 | 0 | 14 | 6 | 1,531 | 0 | 2.12 | 14.9 | poor | 6 |
| 3-Aug | 18 | 18,927 | 0 | 0 | 0 | 2,112 | 5,214 | 0 | 0 | 3 | 0 | 497 | 0 | 2.99 | 14.0 | poor | 6 |
| 4-Aug | 2 | 18,929 | 0 | 0 | 0 | 420 | 5,634 | 10 | 2 | 0 | 2 | 32 | 0 | 3.78 | 12.9 | poor | 11 |
| 5-Aug | 11 | 18,940 | 0 | 0 | 0 | 638 | 6,272 | 20 | 29 | 1 | 12 | 81 | 0 | 3.57 | 12.5 | poor | 30 |
| 6-Aug | 11 | 18,951 | 0 | 0 | 0 | 280 | 6,552 | 10 | 43 | 1 | 14 | 54 | 1 | 3.48 | 12.8 | poor | 30 |
| 7-Aug | 18 | 18,969 | 0 | 0 | 0 | 182 | 6,734 | 9 | 10 | 0 | 17 | 33 | 0 | 3.54 | 12.0 | poor | 14 |
| 8-Aug | 0 | 18,969 | 0 | 0 | 0 | 0 | 6,734 | 0 | 5 | 0 | 0 | 0 | 0 | 4.31 | 11.9 | very poor | 7 |
| 9-Aug | 0 | 18,969 | 0 | 0 | 0 | 0 | 6,734 | 0 | 0 | 0 | 0 | 0 | 0 | 4.90 | n/a | very poor | 3 |
| 10-Aug | 0 | 18,969 | 0 | 0 | 0 | 0 | 6,734 | 0 | 17 | 0 | 0 | 0 | 0 | n/a | n/a | poor | 8 |
| 11-Aug | 0 | 18,969 | 0 | 0 | 0 | 0 | 6,734 | 0 | 2 | 0 | 0 | 0 | 0 | n/a | n/a | poor | 6 |
| 12-Aug | 0 | 18,969 | 0 | 0 | 0 | 0 | 6,734 | 0 | 4 | 0 | 0 | 0 | 0 | n/a | n/a | poor | 9 |
| 13-Aug | 0 | 18,969 | 0 | 0 | 0 | 0 | 6,734 | 0 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | poor | 10 |
| 14-Aug | 0 | 18,969 | 0 | 0 | 0 | 0 | 6,734 | 0 | 6 | 0 | 0 | 0 | 0 | n/a | n/a | poor | 13 |
| 15-Aug | 2 | 18,971 | 0 | 0 | 0 | 12 | 6,746 | 0 | 0 | 0 | 0 | 9 | 0 | 3.20 | 14.7 | poor | 6 |
| 16-Aug | 6 | 18,977 | 0 | 0 | 0 | 42 | 6,788 | 20 | 3 | 0 | 0 | 49 | 0 | 3.07 | 14.7 | poor | 5 |
| 17-Aug | 2 | 18,979 | 0 | 0 | 0 | 73 | 6,861 | 0 | 0 | 0 | 0 | 17 | 0 | 2.90 | 14.5 | poor | 8 |
| 18-Aug | 5 | 18,984 | 0 | 0 | 0 | 104 | 6,965 | 20 | 3 | 0 | 3 | 28 | 0 | 2.88 | 13.8 | poor | 10 |
| 19-Aug | 11 | 18,995 | 0 | 0 | 0 | 149 | 7,114 | 0 | 0 | 0 | 5 | 46 | 1 | 3.92 | 12.5 | poor | 6 |
| 20-Aug | 5 | 19,000 | 0 | 0 | 0 | 16 | 7,130 | 0 | 7 | 0 | 0 | 5 | 1 | 4.51 | 12.0 | poor | 21 |
| 21-Aug | 8 | 19,008 | 0 | 0 | 0 | 42 | 7,172 | 0 | 6 | 0 | 1 | 15 | 0 | 4.20 | 12.0 | acceptable | 17 |
| 22-Aug | 9 | 19,017 | 0 | 0 | 0 | 65 | 7,237 | 18 | 6 | 0 | 4 | 9 | 0 | 3.85 | 12.5 | acceptable | 7 |
| 23-Aug | 1 | 19,018 | 0 | 0 | 0 | 40 | 7,277 | 9 | 0 | 0 | 2 | 3 | 0 | 3.57 | 12.5 | acceptable | 2 |
| 24-Aug | 3 | 19,021 | 0 | 0 | 0 | 26 | 7,303 | 3 | 4 | 0 | 1 | 7 | 0 | 3.67 | 12.0 | acceptable | 5 |
| 25-Aug | 2 | 19,023 | 0 | 0 | 0 | 33 | 7,336 | 0 | 1 | 0 | 0 | 3 | 1 | 3.59 | 12.5 | acceptable | 0 |

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| Date | Chinook salmon | | | | | Coho salmon | | | | Daily passage | | | | River water | | | Boat traffic thru weir |
|--------|----------------|--------|---------|--------|--------------------|-------------|-------|-------------|--------------------|---------------|------|-------|------|-------------|------------|--------------|------------------------|
| | Passage | | Sampled | | Harvest above weir | Passage | | Sampled (n) | Harvest above weir | Red | Chum | Pink | Pike | Stage (ft) | Temp. (°C) | Clarity (cm) | |
| | Daily | Cum | n | Female | | Daily | Cum | | | | | | | | | | |
| 26-Aug | 0 | 19,023 | 0 | 0 | 0 | 11 | 7,347 | 5 | 0 | 0 | 1 | 2 | 0 | 3.38 | 12.5 | acceptable | 12 |
| 27-Aug | 1 | 19,024 | 0 | 0 | 0 | 28 | 7,375 | 11 | 0 | 0 | 0 | 3 | 0 | 3.17 | 13.0 | acceptable | 14 |
| 28-Aug | 0 | 19,024 | 0 | 0 | 0 | 9 | 7,384 | 5 | 0 | 1 | 1 | 0 | 0 | 3.02 | 11.8 | acceptable | 13 |
| 29-Aug | 0 | 19,024 | 0 | 0 | 0 | 6 | 7,390 | 5 | 0 | 0 | 1 | 0 | 0 | 2.88 | 12.1 | acceptable | 4 |
| 30-Aug | 1 | 19,025 | 0 | 0 | 0 | 21 | 7,411 | 0 | 0 | 0 | 0 | 0 | 0 | 2.77 | 12.9 | acceptable | 1 |
| 31-Aug | 1 | 19,026 | 0 | 0 | 0 | 22 | 7,433 | 0 | 0 | 1 | 0 | 0 | 0 | 2.69 | 12.5 | acceptable | 4 |
| 1-Sep | 0 | 19,026 | 0 | 0 | 0 | 30 | 7,463 | 0 | 1 | 0 | 1 | 0 | 2 | 2.95 | 10.9 | poor | 5 |
| 2-Sep | 0 | 19,019 | 0 | 0 | 0 | 13 | 7,476 | 0 | 0 | 0 | 0 | 0 | 0 | 3.89 | 10.9 | acceptable | 20 |
| 3-Sep | 0 | 19,026 | 0 | 0 | 0 | 8 | 7,484 | 0 | 0 | 0 | 1 | 0 | 0 | 3.43 | 10.2 | acceptable | 12 |
| 4-Sep | 0 | 19,026 | 0 | 0 | 0 | 16 | 7,500 | 0 | 0 | 0 | 0 | 0 | 0 | 3.16 | 10.3 | acceptable | 12 |
| 5-Sep | 0 | 19,026 | 0 | 0 | 0 | 7 | 7,507 | 0 | 0 | 0 | 0 | 0 | 1 | 3.01 | 9.8 | acceptable | 10 |
| 6-Sep | 0 | 19,026 | 0 | 0 | 0 | 1 | 7,508 | 0 | 0 | 1 | 0 | 0 | 0 | 2.94 | 9.7 | n/a | 0 |
| Total | 19,026 | | 386 | 162 | 312 | 7,508 | | 246 | 150 | 58 | 85 | 4,490 | 14 | | | | 1,344 |

Note: Cum = cumulative; n = sample size (number of fish); Female = number of female fish in the sample; Red = sockeye salmon; Chum = chum salmon; Pink = pink salmon; Pike = northern pike; and ND = no data collected because no attempts were made to collect it.

Appendix I6.–Deshka River weir data, 2012

| Date | Chinook salmon | | | | | Coho salmon | | | | | River water | | | | Boat traffic thru weir | | |
|--------|----------------|-------|---------|--------|--------------------|-------------|-----|---------|---|--------------------|---------------|------|------|------------|------------------------|------------|--------------|
| | Passage | | Sampled | | Harvest above weir | Passage | | Sampled | | Harvest above weir | Daily passage | | | Stage (ft) | | Temp. (°C) | Clarity (cm) |
| | Daily | Cum | n | Female | | Daily | Cum | (n) | | | Chum | Pink | Pike | | | | |
| 24-May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | n/a | 6 |
| 25-May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | poor | 7 |
| 26-May | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.60 | 11.0 | poor | 18 |
| 27-May | 22 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.56 | 10.8 | poor | 8 |
| 28-May | 22 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.44 | 10.0 | poor | 14 |
| 29-May | 18 | 71 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.20 | 10.9 | good | 6 |
| 30-May | 2 | 73 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.07 | 11.3 | good | 10 |
| 31-May | 24 | 97 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.94 | 11.6 | good | 8 |
| 1-Jun | 21 | 118 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.86 | 11.0 | good | 8 |
| 2-Jun | 107 | 225 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2.76 | 12.1 | good | 24 |
| 3-Jun | 33 | 258 | 6 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2.67 | 12.0 | excellent | 23 |
| 4-Jun | 77 | 335 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2.59 | 11.5 | excellent | 10 |
| 5-Jun | 10 | 345 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.55 | 11.1 | excellent | 9 |
| 6-Jun | 87 | 432 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.49 | 12.5 | excellent | 6 |
| 7-Jun | 68 | 500 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2.47 | 11.8 | excellent | 10 |
| 8-Jun | 217 | 717 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2.45 | 13.2 | excellent | 32 |
| 9-Jun | 368 | 1,085 | 15 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.40 | 12.8 | excellent | 34 |
| 10-Jun | 672 | 1,757 | 17 | 5 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.39 | 12.9 | excellent | 32 |
| 11-Jun | 383 | 2,140 | 15 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.40 | 12.9 | excellent | 18 |
| 12-Jun | 147 | 2,287 | 5 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.38 | 12.2 | excellent | 6 |
| 13-Jun | 813 | 3,100 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.66 | 10.5 | poor | 6 |
| 14-Jun | 368 | 3,468 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.20 | 10.9 | poor | 12 |
| 15-Jun | 230 | 3,698 | 12 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3.15 | 12.0 | good | 30 |
| 16-Jun | 584 | 4,282 | 1 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.80 | 12.0 | good | 44 |
| 17-Jun | 496 | 4,778 | 1 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.61 | 14.0 | good | 8 |
| 18-Jun | 453 | 5,231 | 15 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.46 | 15.1 | good | 20 |
| 19-Jun | 538 | 5,769 | 14 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.45 | 15.1 | good | 29 |
| 20-Jun | 708 | 6,477 | 19 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.49 | 17.0 | excellent | 9 |
| 21-Jun | 402 | 6,879 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.38 | 17.1 | excellent | 6 |
| 22-Jun | 659 | 7,538 | 14 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.29 | 18.3 | excellent | 12 |

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| Date | Chinook salmon | | | | | Coho salmon | | | | | River water | | | Boat traffic thru weir | | | |
|--------|----------------|--------|---------|--------|--------------------|-------------|-----|---------|-------|--------------------|---------------|------|------|------------------------|------------|------------|--------------|
| | Passage | | Sampled | | Harvest above weir | Passage | | Sampled | | Harvest above weir | Daily passage | | | | Stage (ft) | Temp. (°C) | Clarity (cm) |
| | Daily | Cum | n | Female | | Daily | Cum | (n) | Daily | | Pink | Pike | | | | | |
| 23-Jun | 199 | 7,737 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.43 | 19.1 | excellent | 17 | |
| 24-Jun | 59 | 7,796 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.37 | 18.5 | excellent | 15 | |
| 25-Jun | 274 | 8,070 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.29 | 16.9 | excellent | 9 | |
| 26-Jun | 487 | 8,557 | 13 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.28 | 14.2 | excellent | 8 | |
| 27-Jun | 870 | 9,427 | 24 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.38 | 14.0 | good | 6 | |
| 28-Jun | 743 | 10,170 | 16 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.48 | 13.8 | good | 5 | |
| 29-Jun | 331 | 10,501 | 20 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.50 | 13.5 | good | 7 | |
| 30-Jun | 542 | 11,043 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.45 | 15.0 | good | 14 | |
| 1-Jul | 644 | 11,687 | 20 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 | 15.8 | excellent | 12 | |
| 2-Jul | 631 | 12,318 | 19 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.23 | 15.6 | good | 4 | |
| 3-Jul | 116 | 12,434 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2.16 | 14.5 | good | 3 | |
| 4-Jul | 205 | 12,639 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2.15 | 13.7 | good | 1 | |
| 5-Jul | 116 | 12,755 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 2.17 | 14.7 | excellent | 6 | |
| 6-Jul | 136 | 12,891 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 14 | 2.24 | 14.2 | excellent | 13 | |
| 7-Jul | 226 | 13,117 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 19 | 2.20 | 15.8 | excellent | 7 | |
| 8-Jul | 59 | 13,176 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 2.20 | 14.5 | excellent | 18 | |
| 9-Jul | 67 | 13,243 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2.22 | 13.2 | excellent | 9 | |
| 10-Jul | 94 | 13,337 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 2.34 | 14.1 | excellent | 4 | |
| 11-Jul | 27 | 13,364 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2.28 | 13.0 | excellent | 3 | |
| 12-Jul | 12 | 13,376 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2.20 | 13.0 | excellent | 2 | |
| 13-Jul | 38 | 13,414 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 2.19 | 12.5 | excellent | 8 | |
| 14-Jul | 34 | 13,448 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 2.18 | 13.7 | excellent | 11 | |
| 15-Jul | 36 | 13,484 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.14 | 13.0 | excellent | 4 | |
| 16-Jul | 33 | 13,517 | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 4 | 1 | 2.16 | 13.0 | excellent | 7 | |
| 17-Jul | 48 | 13,565 | 2 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 7 | 2.12 | 14.0 | excellent | 7 | |
| 18-Jul | 73 | 13,638 | 2 | 1 | 0 | 1 | 3 | 0 | 0 | 1 | 1 | 21 | 2.10 | 15.2 | excellent | 2 | |
| 19-Jul | 25 | 13,663 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 8 | 2.04 | 17.0 | excellent | 5 | |
| 20-Jul | 28 | 13,691 | 0 | 0 | 0 | 4 | 7 | 0 | 0 | 0 | 0 | 38 | 2.00 | 15.3 | excellent | 8 | |
| 21-Jul | 90 | 13,781 | 1 | 0 | 0 | 23 | 30 | 0 | 0 | 0 | 0 | 103 | 1.97 | 16.3 | excellent | 7 | |
| 22-Jul | 21 | 13,802 | 0 | 1 | 0 | 84 | 114 | 0 | 0 | 0 | 0 | 198 | 2.09 | 14.9 | excellent | 10 | |

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| Date | Chinook salmon | | | | | Coho salmon | | | | | River water | | | Boat traffic thru weir | | | |
|--------|----------------|--------|---------|--------|--------------------|-------------|-------|---------|----|--------------------|---------------|--------|------|------------------------|------------|------------|--------------|
| | Passage | | Sampled | | Harvest above weir | Passage | | Sampled | | Harvest above weir | Daily passage | | | | Stage (ft) | Temp. (°C) | Clarity (cm) |
| | Daily | Cum | n | Female | | Daily | Cum | (n) | | | Chum | Pink | Pike | | | | |
| 23-Jul | 36 | 13,838 | 0 | 0 | 0 | 28 | 142 | 0 | 0 | Red 0 | 3 | 749 | 0 | 2.56 | 14.0 | excellent | 10 |
| 24-Jul | 14 | 13,852 | 0 | 0 | 0 | 53 | 195 | 0 | 0 | 0 | 0 | 74 | 0 | 2.67 | 14.0 | average | 5 |
| 25-Jul | 7 | 13,859 | 0 | 0 | 0 | 47 | 242 | 0 | 0 | 0 | 4 | 562 | 0 | 2.57 | 14.0 | excellent | 10 |
| 26-Jul | 18 | 13,877 | 0 | 0 | 0 | 12 | 254 | 0 | 0 | 0 | 3 | 2,624 | 0 | 2.37 | 15.1 | excellent | 3 |
| 27-Jul | 10 | 13,887 | 0 | 0 | 0 | 163 | 417 | 0 | 1 | 0 | 1 | 545 | 0 | 2.22 | 16.3 | excellent | 12 |
| 28-Jul | 15 | 13,902 | 0 | 0 | 0 | 82 | 499 | 0 | 3 | 1 | 17 | 16,563 | 0 | 2.13 | 17.0 | excellent | 11 |
| 29-Jul | 6 | 13,908 | 0 | 0 | 0 | 192 | 691 | 8 | 4 | 2 | 8 | 11,282 | 0 | 2.04 | 16.0 | excellent | 10 |
| 30-Jul | 3 | 13,911 | 0 | 0 | 0 | 308 | 999 | 32 | 0 | 0 | 12 | 12,500 | 0 | 2.00 | 16.0 | excellent | 4 |
| 31-Jul | 6 | 13,917 | 0 | 0 | 0 | 490 | 1,489 | 10 | 0 | 2 | 7 | 7,112 | 0 | 2.00 | 15.0 | excellent | 5 |
| 1-Aug | 9 | 13,926 | 0 | 0 | 0 | 596 | 2,085 | 0 | 0 | 5 | 5 | 8,233 | 0 | 2.03 | 15.3 | excellent | 8 |
| 2-Aug | 4 | 13,930 | 0 | 0 | 0 | 352 | 2,437 | 20 | 0 | 2 | 3 | 4,111 | 0 | 2.10 | 14.0 | excellent | 5 |
| 3-Aug | 7 | 13,937 | 0 | 0 | 0 | 846 | 3,283 | 10 | 1 | 4 | 5 | 2,681 | 0 | 2.21 | 13.2 | excellent | 13 |
| 4-Aug | 24 | 13,961 | 0 | 0 | 0 | 653 | 3,936 | 10 | 2 | 11 | 16 | 5,330 | 0 | 2.65 | 13.4 | poor | 14 |
| 5-Aug | 15 | 13,976 | 0 | 0 | 0 | 601 | 4,537 | 0 | 19 | 5 | 10 | 2,119 | 0 | 2.66 | 12.6 | poor | 19 |
| 6-Aug | 14 | 13,990 | 0 | 0 | 0 | 207 | 4,744 | 0 | 3 | 7 | 8 | 928 | 0 | 3.68 | 12.4 | poor | 20 |
| 7-Aug | 4 | 13,994 | 0 | 0 | 0 | 104 | 4,848 | 8 | 0 | 0 | 2 | 617 | 0 | 3.19 | 13.0 | poor | 12 |
| 8-Aug | 4 | 13,998 | 0 | 0 | 0 | 267 | 5,115 | 2 | 18 | 0 | 1 | 524 | 0 | 2.78 | 14.5 | poor | 16 |
| 9-Aug | 6 | 14,004 | 0 | 0 | 0 | 65 | 5,180 | 0 | 3 | 0 | 2 | 651 | 0 | 2.52 | 15.5 | poor | 7 |
| 10-Aug | 5 | 14,009 | 0 | 0 | 0 | 83 | 5,263 | 10 | 5 | 0 | 1 | 280 | 0 | 2.30 | 15.8 | good | 20 |
| 11-Aug | 4 | 14,013 | 0 | 0 | 0 | 89 | 5,352 | 10 | 4 | 1 | 0 | 255 | 0 | 2.20 | 15.8 | good | 16 |
| 12-Aug | 2 | 14,015 | 0 | 0 | 0 | 62 | 5,414 | 12 | 17 | 2 | 1 | 147 | 1 | 2.15 | 16.0 | good | 17 |
| 13-Aug | 4 | 14,019 | 0 | 0 | 0 | 59 | 5,473 | 10 | 0 | 0 | 0 | 98 | 0 | 2.06 | 16.0 | good | 3 |
| 14-Aug | 6 | 14,025 | 0 | 0 | 0 | 34 | 5,507 | 7 | 0 | 1 | 2 | 71 | 0 | 2.00 | 16.0 | excellent | 5 |
| 15-Aug | 12 | 14,037 | 0 | 0 | 0 | 29 | 5,536 | 1 | 0 | 0 | 0 | 58 | 1 | 1.99 | 15.9 | excellent | 3 |
| 16-Aug | 6 | 14,043 | 0 | 0 | 0 | 92 | 5,628 | 0 | 0 | 0 | 0 | 61 | 0 | 1.95 | 15.2 | excellent | 5 |
| 17-Aug | 10 | 14,053 | 0 | 0 | 0 | 11 | 5,639 | 0 | 5 | 0 | 0 | 90 | 1 | 1.94 | 15.0 | excellent | 11 |
| 18-Aug | 6 | 14,059 | 0 | 0 | 0 | 25 | 5,664 | 3 | 8 | 0 | 3 | 21 | 0 | 1.95 | 14.0 | excellent | 17 |
| 19-Aug | 5 | 14,064 | 0 | 0 | 0 | 26 | 5,690 | 17 | 13 | 3 | 2 | 13 | 0 | 1.95 | 12.9 | excellent | 9 |
| 20-Aug | 1 | 14,065 | 0 | 0 | 0 | 718 | 6,408 | 20 | 1 | 0 | 0 | 4 | 0 | 2.01 | 12.0 | excellent | 4 |
| 21-Aug | 4 | 14,069 | 0 | 0 | 0 | 71 | 6,479 | 10 | 0 | 1 | 1 | 47 | 0 | 2.46 | 12.0 | poor | 3 |

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| Date | Chinook salmon | | | | | Coho salmon | | | | Daily passage | | | | River water | | | Boat traffic thru weir |
|--------|----------------|--------|---------|--------|--------------------|-------------|-------|-------------|--------------------|---------------|------|--------|------|-------------|------------|--------------|------------------------|
| | Passage | | Sampled | | Harvest above weir | Passage | | Sampled (n) | Harvest above weir | Red | Chum | Pink | Pike | Stage (ft) | Temp. (°C) | Clarity (cm) | |
| | Daily | Cum | n | Female | | Daily | Cum | | | | | | | | | | |
| 22-Aug | 0 | 14,069 | 0 | 0 | 0 | 82 | 6,561 | 0 | 0 | 0 | 0 | 16 | 1 | 2.69 | 12.0 | poor | 2 |
| 23-Aug | 2 | 14,071 | 0 | 0 | 0 | 12 | 6,573 | 12 | 0 | 0 | 2 | 7 | 0 | 2.50 | 14.5 | poor | 1 |
| 24-Aug | 8 | 14,079 | 0 | 0 | 0 | 8 | 6,581 | 7 | 0 | 0 | 1 | 4 | 0 | 2.40 | 12.8 | good | 10 |
| 25-Aug | 2 | 14,081 | 0 | 0 | 0 | 11 | 6,592 | 4 | 2 | 0 | 1 | 4 | 1 | 2.40 | 12.0 | poor | 5 |
| 26-Aug | 4 | 14,085 | 0 | 0 | 0 | 36 | 6,628 | 1 | 0 | 0 | 0 | 4 | 0 | 2.30 | 12.0 | poor | 8 |
| 27-Aug | 5 | 14,090 | 0 | 0 | 0 | 64 | 6,692 | 12 | 0 | 0 | 0 | 1 | 0 | 2.35 | 11.2 | poor | 6 |
| 28-Aug | 2 | 14,092 | 0 | 0 | 0 | 17 | 6,709 | 14 | 0 | 0 | 0 | 0 | 0 | 3.20 | 11.0 | poor | 7 |
| 29-Aug | 3 | 14,095 | 0 | 0 | 0 | 11 | 6,720 | 0 | 0 | 0 | 0 | 1 | 0 | 3.28 | 10.6 | poor | 8 |
| 30-Aug | 0 | 14,095 | 0 | 0 | 0 | 6 | 6,726 | 0 | 0 | 0 | 1 | 0 | 0 | 2.77 | 11.9 | poor | 2 |
| 31-Aug | 0 | 14,095 | 0 | 0 | 0 | 61 | 6,787 | 0 | 0 | 0 | 0 | 1 | 0 | 2.59 | 12.4 | poor | 7 |
| 1-Sep | 1 | 14,096 | 0 | 0 | 0 | 13 | 6,800 | 0 | 0 | 0 | 0 | 13 | 0 | 2.89 | 10.5 | poor | 13 |
| 2-Sep | 0 | 14,096 | 0 | 0 | 0 | 25 | 6,825 | 0 | 0 | 0 | 0 | 0 | 0 | 4.20 | 10.0 | poor | 9 |
| 3-Sep | 0 | 14,096 | 0 | 0 | 0 | 0 | 6,825 | 0 | 0 | 0 | 0 | 0 | 0 | 4.18 | 10.2 | poor | 13 |
| 4-Sep | 0 | 14,096 | 0 | 0 | 0 | 0 | 6,825 | 0 | 0 | 0 | 0 | 0 | 0 | 4.28 | 9.2 | poor | 8 |
| 5-Sep | 0 | 14,096 | 0 | 0 | 0 | 0 | 6,825 | 0 | 0 | 0 | 0 | 0 | 0 | 4.86 | n/a | poor | 0 |
| Total | 14,096 | | 323 | 138 | 66 | 6,825 | | 250 | 109 | 50 | 133 | 78,857 | 14 | | | | 1,080 |

Note: Cum = cumulative; n = sample size (number of fish); Female = number of female fish in the sample; Red = sockeye salmon; Chum = chum salmon; Pink = pink salmon; Pike = northern pike; and ND = no data collected because no attempts were made to collect it.

APPENDIX J
MATANUSKA-SUSITNA BOROUGH LAKE MANAGEMENT
PLANS

Appendix J1.–Matanuska-Susitna Borough lake management plans.

| Lake | | Regulations | | Date |
|-------------------|---|---|--|---------|
| Name | Characteristics | Details | | Adopted |
| Big Lake | Surface Area: 2,495 acres Maximum Depth: 89 feet Mean Depth: 30 feet | Personal Watercraft Prohibited on Meadow Creek Quiet Hours: 11:00 p.m. - 8:00 a.m. Sun. - Sat. Ice House Registration No Wake Zone: 150 feet from shoreline | | Aug-98 |
| Blodgett Lake | Surface Area: 57.6 acres Maximum Depth: 29 feet Mean Depth: 10.7 feet | Horsepower Limit: 10 Personal Watercraft Prohibited Quiet Hours: 10:00 p.m. - 8:00 a.m. Sun. - Thurs. 11:00 p.m. - 8:00 a.m. Fri. - Sat. | | Sep-97 |
| Bonnie Lake Area | Surface Area: 105 acres | Electric Motors Only | | Nov-96 |
| Upper Bonnie Lake | Maximum Depth: 35 feet Mean Depth: Not Available | Personal Watercraft Prohibited | | |
| Bonnie Lake | Surface Area: 99.8 acres Maximum Depth: 35 feet Mean Depth: Not Available | Personal Watercraft Prohibited | | |
| Ravine Lake | Surface Area: 12 acres Maximum Depth: 25 feet Mean Depth: 12 feet | Horsepower Limit: 10 Personal Watercraft Prohibited | | |
| Carpenter Lake | Surface Area: 176 Acres Maximum Depth: 30 feet Mean Depth: 8.1 feet | Personal Watercraft prohibited 10 HP Limit - Time Share Quiet hours: 10 pm to 8 am Sun - Sat. No wake zone 100 feet from shore, Winter Motor Vehicle Ban | | Jun-06 |
| Christiansen Lake | Surface Area: 179 acres Maximum Depth: 82 feet Mean Depth: 22 feet | Personal Watercraft prohibited 15 HP limit Quiet Hours: 10:00 p.m. to 8:00 a.m., Sunday - Sat. Special permit: To accommodate building construction, early season testing of river boats & other special uses. HP limit maybe waived by Special permit. | | Sep-99 |
| Crooked Lake | Surface Area: 250 acres Maximum Depth: 35 feet Mean Depth: 14 feet | No Wake Zone: 50 feet from shoreline at the public dock | | Aug-95 |
| Crystal Lake | Surface Area: 132 acres Maximum Depth: 24 feet Mean Depth: 11.7 feet | Quiet Hours: 10:00 p.m. - 8:00 a.m. Sun. - Sat. | | Aug-96 |
| Diamond Lake | Surface Area: 139 acres Maximum Depth: 23 feet Mean Depth: 7.6 feet | Horsepower Limit: 10 Quiet Hours: 10:00 p.m. – 8:00 a.m. Sun. –Sat. Ice House Registration No Wake Zone: 100 feet from ordinary high water mark | | Apr-99 |

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| Lake | | Regulations | |
|-------------------------|---|---|--------------|
| Name | Characteristics | Details | Date Adopted |
| Florence Lake | Surface Area: 55 acres Maximum Depth: 41 feet Mean Depth: 17.6 feet | Quiet Hours: 10p.m. and 8a.m. Sun - Sat No Wake Zone: 100 feet from shoreline. Personal watercraft ban | Apr-06 |
| Fish Lake | Surface Area: 59 acres Maximum Depth: Not Available Mean Depth: Not Available | Horsepower Limit: 5 | Aug-97 |
| Honeybee Lake | Surface Area: 58 acres Maximum Depth: 35 feet Mean Depth: 13.5 feet | Electric Motors Only Quiet Hours: 7:00 p.m. – 9:00 a.m. Sun. – Sat. | Nov-97 |
| Lake | | Regulations | |
| Name | Characteristics | Details | Date adopted |
| Island & Doubloon Lakes | Surface Area: 85 acres Maximum Depth: Not Available Mean Depth: Not Available | Personal Watercraft Prohibited | Aug-96 |
| Island Lake | Maximum Depth: Not Available Mean Depth: Not Available | | |
| Doubloon Lake | Surface Area: 14 acres Maximum Depth: Not Available Mean Depth: Not Available | Personal Watercraft Prohibited | |
| Jean Lake | Surface Area: 51 acres Maximum Depth: 30 feet Mean Depth: 3-5 feet | Personal Watercraft Prohibited Electric Motors Only Quiet Hours: 10:00 p.m. – 8:00 a.m. Sun.–Sat. Commercial floatplane operations are discouraged. | Jan-06 |
| John Lake | Surface Area: 52 acres Maximum Depth: Not Available Mean Depth: Not Available | Horsepower Limit: 10 Quiet Hours: 10:00 p.m. – 8:00 a.m. Sun. – Sat. (electric and trolling motors allowed during quiet hours) | Aug-96 |
| Knik Lake | Surface Area: 50 acres Maximum Depth: 37 feet Mean Depth: 19 feet | Horsepower Limit: 5 Quiet Hours: 10:00 p.m. – 8:00 a.m. Sun. – Thurs. 11:00 p.m. – 8:00 a.m. Fri. – Sat. | Aug-95 |
| Liten Lake | Surface Area: 57 acres Maximum Depth: 10+ feet Mean Depth: 4-6 feet | Motorized Watercraft Prohibited Personal Watercraft Prohibited No Wake Zone: Lake Wide Quiet Hours: 10:00 p.m. – 8:00 a.m. Sun.–Sat. Public access to lake is discouraged. Commercial floatplane operations are discouraged. | Jan-06 |

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Appendix J1.–Page 3 of 5.

| Lake | | Regulations | | Date |
|---------------------|--|--|--|---------|
| Name | Characteristics | Details | | Adopted |
| Little Lonely Lake | Surface Area: 56 acres Maximum Depth: 63 feet Mean Depth: 20 feet | Personal Watercraft Prohibited Horsepower Limit: 10 No Wake Zone: Lake Wide Quiet Hours: 10:00 p.m. – 8:00 a.m. Sun.–Sat. Ice House Registration Commercial floatplane operations are discouraged. | | May-05 |
| Long Lake (Houston) | Surface Area: 44 acres Maximum Depth: 17 feet Mean Depth: 8.8 feet | Personal Watercraft Prohibited Horsepower Limit: 10 No Wake Zone: 100 feet from ordinary high water mark Quiet Hours: 10:00 p.m. - 8:00 a.m. Sun - Sat | | Nov-01 |
| Marilee Lake | Surface Area: 33.8 acres Maximum Depth: 18 feet Mean Depth: 7.3 feet | Horsepower Limit: 5 | | Sep-98 |
| Marion Lake | Surface Area: 113 acres Maximum Depth: 42 feet Mean Depth: 20.6 feet | Personal Watercraft Prohibited Quiet Hours: 10:00 p.m. - 8:00 a.m. Sun.- Sat. No Wake Zone: 100 feet from ordinary high water mark. Time Share: A lake-wide no wake speed except on Thursdays, Fridays, Saturdays, and all 3-day weekends mandated by federal holiday (Memorial Day, Fourth of July, and Labor Day). | | Nov-00 |
| Memory Lake | Surface Area: 84 acres Maximum Depth: 20 feet Mean Depth: 7.2 feet | Horsepower Limit: 10 Quiet Hours: 10:00 p.m. - 8:00 a.m. Sun.- Sat. Access to be day use only | | Sep-98 |
| Morvoe Lake | Surface Area: 87 acres Mean Depth: 11 feet Maximum Depth: 17 feet | 25 Horsepower limit Quiet Hours: 11:00 pm - 8:00 am Sun. - Sat. | | 2007 |
| Neklasen Lake | Surface Area: 72 acres Maximum Depth: 67 feet Mean Depth: 16 feet | Personal Watercraft Prohibited Quiet Hours: 10:00 p.m. - 8:00 a.m. Sun.- Sat. No Wake Zone: 100 feet from shoreline except when a waterskier is leaving dock or shoreline. Timeshare: Lake-wide No Wake Zone except Thursdays, Fridays, first and third Saturdays of the month, national holidays, and three-day weekends resulting from national holidays. | | Jan-00 |

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Appendix J1.–Page 4 of 5.

| Lake | | Regulations | |
|-----------------------------|---|--|--------------|
| Names | Characteristics | Details | Date Adopted |
| Lower Neklasen Lake | Surface Area: 36 acres Maximum Depth: unknown Mean Depth: less than 5 feet | All Motorized Water Craft Prohibited | Jan-00 |
| Paradise Lake | Surface Area: 25 acres Maximum Depth: 20 feet Mean Depth: 5-10 feet | Electric motors only Quiet Hours: 9 pm to 9am Sun - Sat Personal watercraft prohibited | Apr-07 |
| Question Lake | Surface Area: 80 acres Maximum Depth: unknown Mean Depth: unknown | Horse Power Limit: 5 Quiet Hours: 10:00 p.m. - 8:00 a.m. Sun - Sat Motor Vehicles prohibited during winter months when lake is frozen | Sep-98 |
| Little Question Lake | Surface Area: 25 acres Maximum Depth: unknown Mean Depth: unknown | Non-motorized Quiet Hours: 10:00 p.m. - 8:00 a.m. Sun - Sat Motor Vehicles prohibited during winter months when lake is frozen | Sep-98 |
| Lake Five and Unnamed Lakes | Surface Area: unknown Maximum Depth: unknown Mean Depth: unknown | Non-motorized Quiet Hours: 10:00 p.m. - 8:00 a.m. Sun - Sat All these lakes allow for a special permit to exceed motor limits for building construction Motor Vehicles prohibited during winter months when lake is frozen Ice House Registration | Sep-98 |
| Rainbow Lake | Surface Area: 72.3 acres Maximum Depth: Not Available Mean Depth: Not Available | Horsepower Limit: 10 Quiet Hours: 10:00 p.m. - 8:00 a.m. Sun - Sat | Nov-95 |
| Shirley Lake | Surface Area: 121 acres Maximum Depth: 23 feet Mean Depth: 14.1 feet | Personal Watercraft prohibited. Quiet Hours: 10:00 pm - 8:00 am Sun - Sat No Wake Zone: 100 feet from ordinary high water mark | Apr-06 |
| Stephans Lake | Surface Area: 95 acres Maximum Depth: 30 feet | Horsepower limit: 10 on timeshare basis. Personal watercraft ban, Quiet Hours 10:00 pm - 8:00 am Sun - Sat. No Wake Zone: 100 feet from shoreline | Mar-07 |
| Oriana Lake | Surface Area: 9.37 acres Maximum Depth: 25 feet | No motorized watercraft. | Mar-07 |
| Threemile Lake | Surface Area: 119 acres Maximum Depth: 15 feet Mean Depth: 3.3 feet | Personal Watercraft prohibited. Amphibious Vehicles prohibited. Horsepower Limit: 10 Quiet Hours: 10:00 pm - 8:00 am Sun - Sat | Nov-02 |

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Appendix J1.–Page 5 of 5.

| Lake | | Regulations | | Date |
|-------------------|--|--|--|---------|
| Names | Characteristics | Details | | Adopted |
| Toad Lake | Surface Area: 50 acres Maximum Depth: unknown Mean Depth: 10 feet | Electric motors only | | Sep-98 |
| Twin Island Lake | Surface Area: 151 acres Maximum Depth: 61 feet Mean Depth: 14.8 feet | Horsepower Limit: 10 Quiet Hours: 10:00 p.m. - 8:00 a.m. Sun - Thurs 11:00 p.m. - 8:00 a.m. Fri - Sat Walk-in only access | | Jul-97 |
| Walby Lake | Surface Area: 54 acres Maximum Depth: 18 feet Mean Depth: 5.4 feet | Horsepower Limit: 10 Quiet Hours: 10:00 p.m. - 8:00 a.m. Sun. - Sat. Motor Vehicles prohibited during winter months when lake is frozen | | Sep-98 |
| West Papoose Lake | Surface Area: 212 acres Maximum Depth: Not Available Mean Depth: Not Available | Personal Watercraft Prohibited Quiet Hours: 11:00 p.m. - 8:00 a.m. Sun - Sat No Wake Zone: 100 feet from ordinary high water mark | | Aug-96 |
| Whiskey Lake | Surface Area: 270 acres Maximum Depth: 35 feet Mean Depth: Unavailable | Personal Watercraft Prohibited No Wake Zone: 150 feet from ordinary high water mark Quiet Hours: 10:00 pm - 8:00 am Sun - Sat Motorized Watercraft Prohibited on portions of the inlet creek and outlet (Whiskey) creek. | | Aug-04 |
| Wolf Lake | Surface Area: 62 acres Maximum Depth: 17 feet Mean Depth: 6.8 feet | Horsepower Limit: 6 Motor Vehicles prohibited during winter months when lake is frozen | | Jul-97 |
| Wolverine Lake | Surface Area: 55 acres Maximum Depth: 7 feet Mean Depth: 2.2 feet | Personal Watercraft Prohibited Quiet Hours: 10:00 p.m. - 8:00 a.m. Sun. - Sat. Electric motors only Commercial Floatplane Operations Prohibited. | | Aug-04 |
| Cottonwood Lake | | Mufflers, cowlings, exhaust systems Quiet Hours: 11:00 p.m. - 8:00 a.m., Sun. - Sat. No Wake Zone: 100 feet from shoreline Special Events Permits | | 1995 |
| Finger Lake | | Mufflers, cowlings, exhaust systems Quiet Hours: 11:00 p.m. - 8:00 a.m., Sun. - Sat. No Wake Zone: 100 feet from shoreline Special Events Permits | | 1995 |
| Wasilla Lake | | Mufflers, cowlings, exhaust systems Quiet Hours: 11:00 p.m. - 8:00 a.m., Sun. - Sat. No Wake Zone: 100 feet from shoreline Special Events Permits | | 1995 |
| Cottonwood Creek | | Non-motorized. | | 1995 |

APPENDIX K.
PRESENCE OF NORTHERN PIKE IN WATERS OF THE
NORTHERN COOK INLET MANAGEMENT AREA

Appendix K1.-Confirmed and suspected presence of northern pike in waters of the Northern Cook Inlet Management Area.

| Primary classification | Secondary Classification | Site | Presence Documented | Presence Suspected |
|------------------------|--------------------------|---------------------------|---------------------|--------------------|
| Susitna Basin Lakes | Alexander Creek | Alexander Lake | X | |
| Susitna Basin Lakes | Alexander Creek | Sucker Lake | X | |
| Susitna Basin Lakes | Alexander Creek | Trail Lake | X | |
| Susitna Basin Lakes | Alexander Creek | Rabbit Lake | X | |
| Susitna Basin Lakes | Lower Susitna | Flathorn Lake | X | |
| Susitna Basin Lakes | Lower Susitna | Figure 8 Lake | X | |
| Susitna Basin Lakes | Mid Susitna | Witsoe Lake | X | |
| Susitna Basin Lakes | Mid Susitna | Witsol Lake | X | |
| Susitna Basin Lakes | Mid Susitna | Lockwood Lake | X | |
| Susitna Basin Lakes | Mid Susitna | Lady Slipper | X | |
| Susitna Basin Lakes | Mid Susitna | Unnamed | X | |
| Susitna Basin Lakes | Mid Susitna | Unnamed | X | |
| Susitna Basin Lakes | Mid Susitna | Unnamed | X | |
| Susitna Basin Lakes | Mid Susitna | Vern Lake | X | |
| Susitna Basin Lakes | Mid Susitna | Ding Dong | X | |
| Susitna Basin Lakes | Mid Susitna | Yensus Lake | | X |
| Susitna Basin Lakes | Yentna River | Whiskey Lake | X | |
| Susitna Basin Lakes | Yentna River | Bulchitna Lake | X | |
| Susitna Basin Lakes | Yentna River | Fish Creek Lake 1 | X | |
| Susitna Basin Lakes | Yentna River | Fish Creek Lake 2 | X | |
| Susitna Basin Lakes | Yentna River | Fish Creek Lake 3 | X | |
| Susitna Basin Lakes | Yentna River | Fish Creek Lake 4 | X | |
| Susitna Basin Lakes | Yentna River | Donkey Lake | X | |
| Susitna Basin Lakes | Yentna River | Hewitt Lake | X | |
| Susitna Basin Lakes | Yentna River | No Name (Big Bend) | X | |
| Susitna Basin Lakes | Yentna River | Chelatna Lake | X | |
| Susitna Basin Lakes | Yentna River | Cabin Lake (Big Bend) | X | |
| Susitna Basin Lakes | Yentna River | Pear Lake (Upper Skwenta) | X | |
| Susitna Basin Lakes | Yentna River | Stickleback Lake | X | |
| Susitna Basin Lakes | Skwentna River | Eight Mile Lake | X | |
| Susitna Basin Lakes | Skwentna River | Seven Mile Lake | X | |
| Susitna Basin Lakes | Skwentna River | No Name (Herk Strip) | X | |
| Susitna Basin Lakes | Skwentna River | One Stone Lake | X | |
| Susitna Basin Lakes | Skwentna River | Shell Lake | X | |
| Susitna Basin Lakes | Deshka River | Parker Lake | X | |
| Susitna Basin Lakes | Deshka River | Trapper Lake | X | |
| Susitna Basin Lakes | Deshka River | No Name Lake | X | |
| Susitna Basin Lakes | Deshka River | Ambler Lake | X | |
| Susitna Basin Lakes | Deshka River | Rocky Lake | X | |
| Susitna Basin Lakes | Deshka River | Neil Lake | X | |
| Susitna Basin Lakes | Deshka River | Kroto Lake | X | |
| Susitna Basin Lakes | Deshka River | No Name 1mi SW Parker | X | |

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Appendix K1.-Page 2 of 4.

| Primary classification | Secondary Classification | Site | Presence Documented | Presence Suspected |
|------------------------|--------------------------|------------------------|---------------------|--------------------|
| Susitna Basin Lakes | Deshka River | No Name 2 mi SW Parker | X | |
| Susitna Basin Lakes | Upper Susitna | Kashwitna Lake | | X |
| Susitna Basin Lakes | Upper Susitna | Caswell Lake | | X |
| Susitna Basin Lakes | Upper Susitna | Fish Lake (Birch Ck) | | X |
| Susitna Basin Lakes | Upper Susitna | Sawmill Lake | | X |
| Susitna Basin Lakes | Upper Susitna | Swan Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | Nancy Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | Redshirt Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | Lynx Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | Cow Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | Little Chicken Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | Big No Luck Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | South Rolly Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | North Rolly Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | Denaina Lake (Tanaina) | X | |
| Susitna Basin Lakes | Nancy Lake Area | Milo Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | Frazer Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | Little Frazer Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | James Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | Owl Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | Char Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | Ardaw Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | Phoebe Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | Chicken Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | Echo Pond #1 | X | |
| Susitna Basin Lakes | Nancy Lake Area | Echo Pond #2 | X | |
| Susitna Basin Lakes | Nancy Lake Area | Echo Pond #3 | X | |
| Susitna Basin Lakes | Nancy Lake Area | Candle Stick Lake | X | |
| Susitna Basin Lakes | Nancy Lake Area | Bains Pond #1 | X | |
| Susitna Basin Lakes | Nancy Lake Area | Bains Pond #2 | X | |
| Susitna Basin Lakes | Nancy Lake Area | Bains Pond #3 | X | |
| Susitna Tributaries | | Fish Creek (Flathorn) | X | |
| Susitna Tributaries | | Fish Creek (Kroto) | X | |
| Susitna Tributaries | | Lake Creek | X | |
| Susitna Tributaries | | Fish Lake Creek | X | |
| Susitna Tributaries | | Alexander Creek | X | |
| Susitna Tributaries | | Trappers Creek | X | |
| Susitna Tributaries | | Sucker Creek | X | |
| Susitna Tributaries | | Montana Creek | X | |
| Susitna Tributaries | | Rolly Creek | X | |
| Susitna Tributaries | | Moose Creek | X | |
| Susitna Tributaries | | Bottle Creek | X | |
| Susitna Tributaries | | Hewitt Creek | X | |

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Appendix K1.-Page 3 of 4.

| Primary classification | Secondary Classification | Site | Presence Documented | Presence Suspected |
|------------------------|--------------------------|----------------------------|---------------------|--------------------|
| Susitna Tributaries | | Donkey Creek | X | |
| Susitna Tributaries | | Indian Creek (Yentna) | X | |
| Susitna Tributaries | | Indian (Chulitna) | | X |
| Susitna Tributaries | | Rabideux Creek | X | |
| Susitna Tributaries | | Fish Lake Creek | X | |
| Susitna Tributaries | | Kutna Creek (Yentna) | X | |
| Susitna Tributaries | | Shell Creek | X | |
| Susitna Tributaries | | Eightmile Creek | X | |
| Susitna Tributaries | | Caswell Creek | X | |
| Susitna Tributaries | | Witsoe Creek | X | |
| Susitna Tributaries | | Trapper (Talkeetna) | | X |
| Susitna Tributaries | | Talachulitna Creek | | X |
| Susitna Tributaries | | Johnson Creek | X | |
| Susitna Tributaries | | Otter Creek | X | |
| Susitna Tributaries | | Unnamed (Lower Su) | X | |
| Susitna Tributaries | | Sunshine Creek | | X |
| Susitna Tributaries | | Anderson Creek | | X |
| Susitna Tributaries | | Wiggel Creek | | X |
| Susitna Tributaries | | Birch Creek | | X |
| Susitna Tributaries | | Yentna River | X | |
| Susitna Tributaries | | Skwentna River | X | |
| Susitna Tributaries | | Chulitna River | | X |
| Susitna Tributaries | | Tokositna | X | |
| Susitna Tributaries | | Deshka River | X | |
| Knik Arm Drainage | Big Lake Drainage | Fish Creek (Big Lake) | | X |
| Knik Arm Drainage | Big Lake Drainage | Meadow Creek (Big Lake) | | X |
| Knik Arm Drainage | Big Lake Drainage | Big Lake | X | |
| Knik Arm Drainage | Big Lake Drainage | Blodgett Lake | | X |
| Knik Arm Drainage | Big Lake Drainage | West Beaver Lake | | X |
| Knik Arm Drainage | Big Lake Drainage | Rainbow Lake | | X |
| Knik Arm Drainage | Cottonwood Creek | Cottonwood Creek | | X |
| Knik Arm Drainage | Cottonwood Creek | Cottonwood Lake | | X |
| Knik Arm Drainage | Cottonwood Creek | Andersen Lake | X | |
| Knik Arm Drainage | Cottonwood Creek | Wasilla Lake | | X |
| Knik Arm Drainage | Cottonwood Creek | Mud Lake | | X |
| Knik Arm Drainage | | Little Susitna River | X | |
| Knik Arm Drainage | Little Susitna River | Horseshoe Lake (Little-Su) | | X |
| Knik Arm Drainage | Knik River | Swan Lake | | X |
| Knik Arm Drainage | Knik River | Jim Lake/Jim Creek | | X |
| Knik Arm Drainage | | Knik Lake | X | |
| Knik Arm Drainage | | Mink Creek | X | |
| Knik Arm Drainage | | Fire Creek | X | |
| West Cook Inlet | | Chuit River | X | |

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Appendix K1.-Page 4 of 4.

| Primary classification | Secondary Classification | Site | Presence Documented | Presence Suspected |
|------------------------|--------------------------|-----------------------|---------------------|--------------------|
| West Cook Inlet | | Chuitbunga Lake | X | |
| West Cook Inlet | | Threemile Creek | X | |
| West Cook Inlet | Threemile Creek | Threemile lakes | X | |
| West Cook Inlet | | Tukallah Lake | X | |
| West Cook Inlet | | Nikolai River | X | |
| Mat-Valley Lakes | | Big Lake cut-off Lake | X | |
| Mat-Valley Lakes | | Crystal Lake (Willow) | X | |
| Mat-Valley Lakes | | Shirley Lake (Willow) | | X |
| Mat-Valley Lakes | | Long Lake (Willow) | X | |
| Mat-Valley Lakes | | Prator Lake | X | |
| Mat-Valley Lakes | | Memory Lake | X | |
| Mat-Valley Lakes | | Finger Lake | | X |
| Mat-Valley Lakes | | Wallace Lake | X | |
| Anchorage Lakes | | Sand Lake | X | |
| Anchorage Lakes | | DeLong Lake | X | |
| Anchorage Lakes | | Lower Fire Lake | X | |
| Anchorage Lakes | | Upper Fire Lake | X | |